

FIG. 1

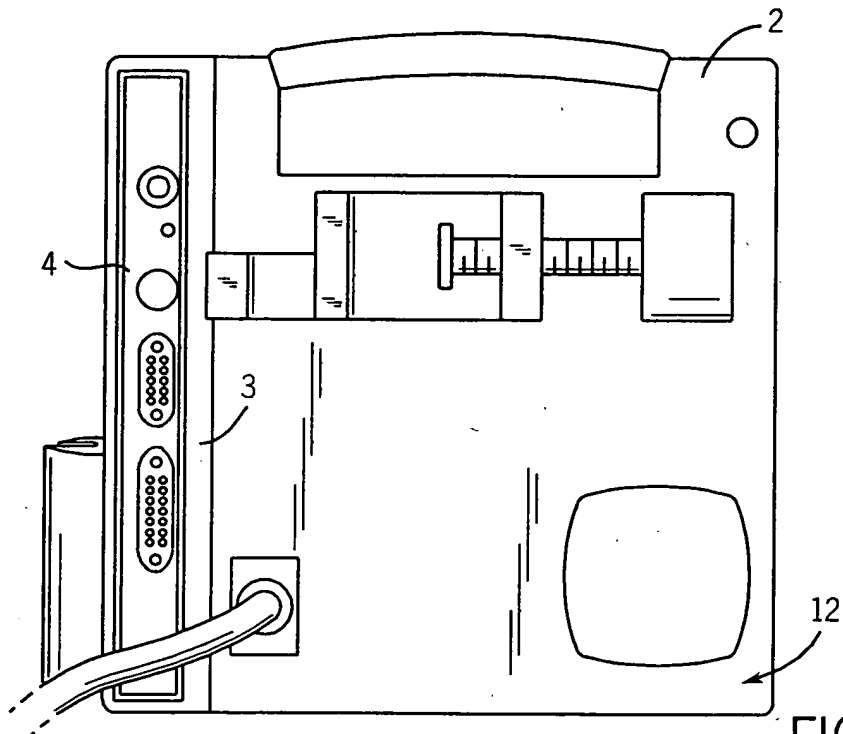
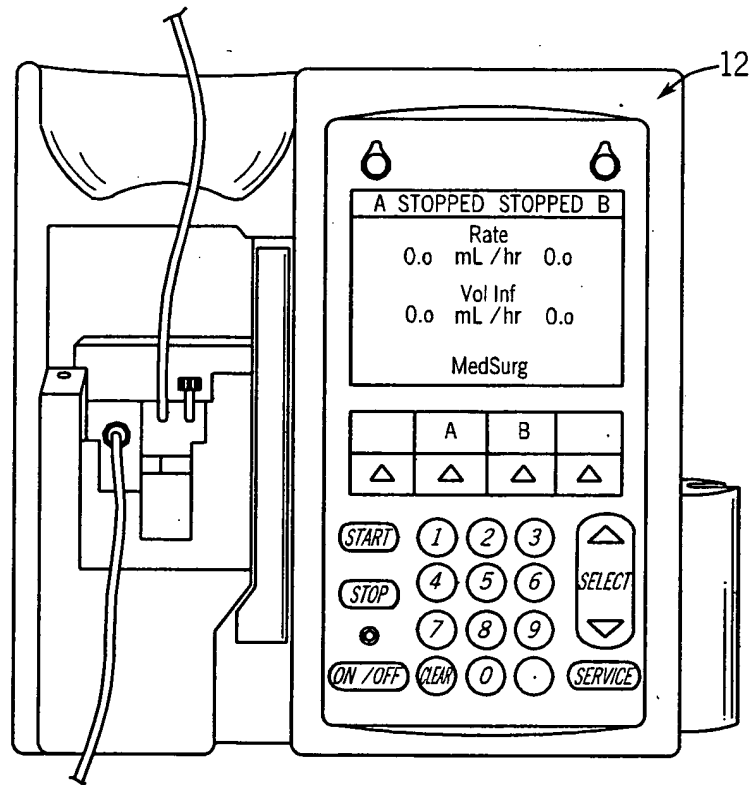


FIG. 1A

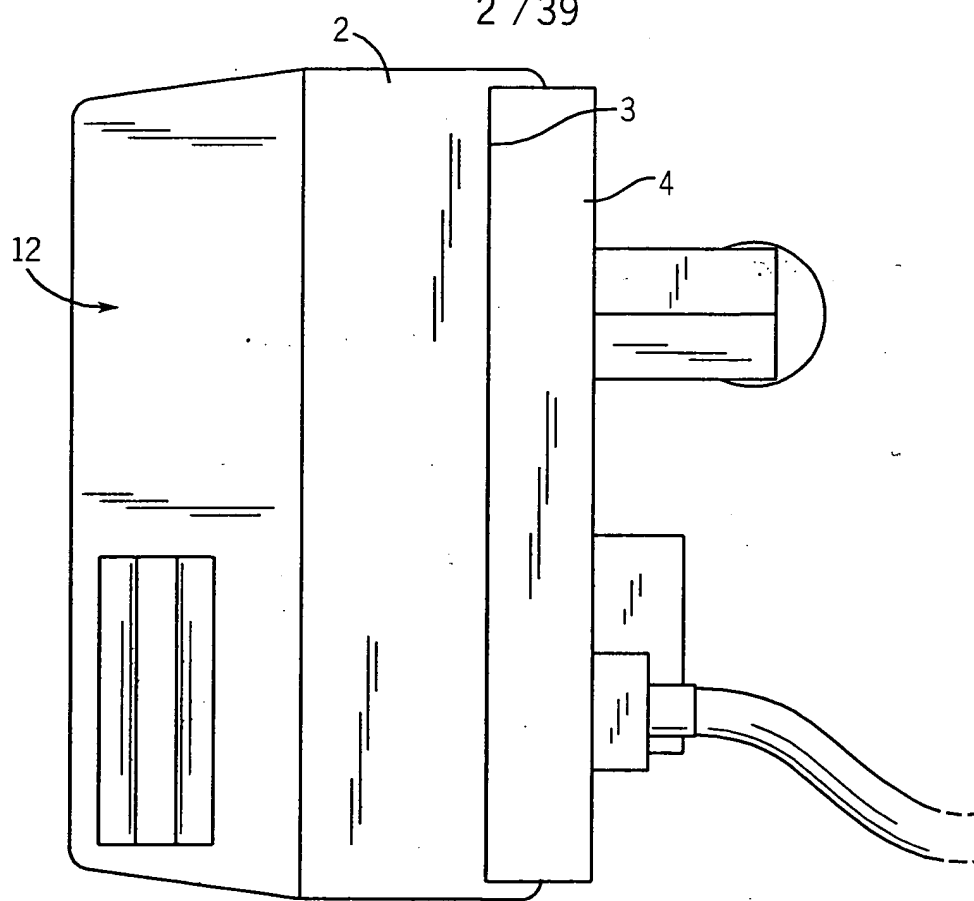


FIG. 1B

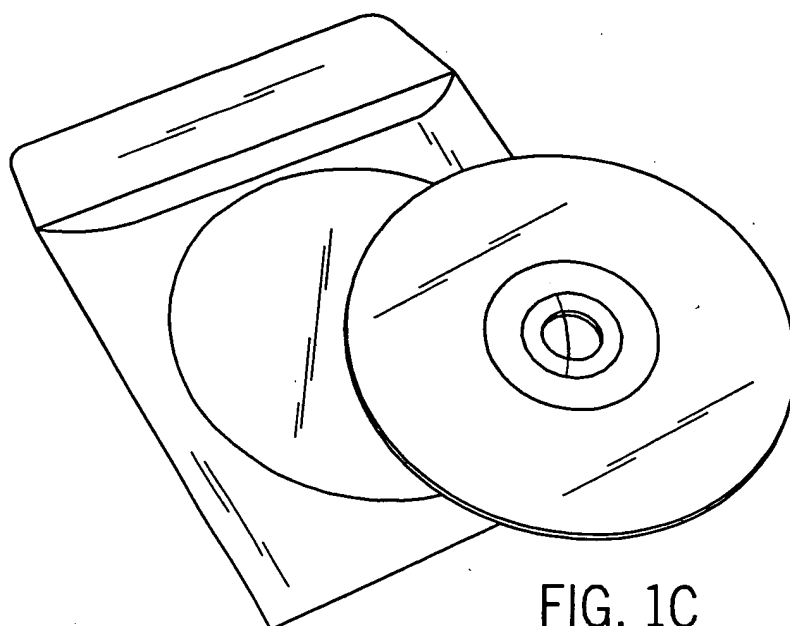


FIG. 1C

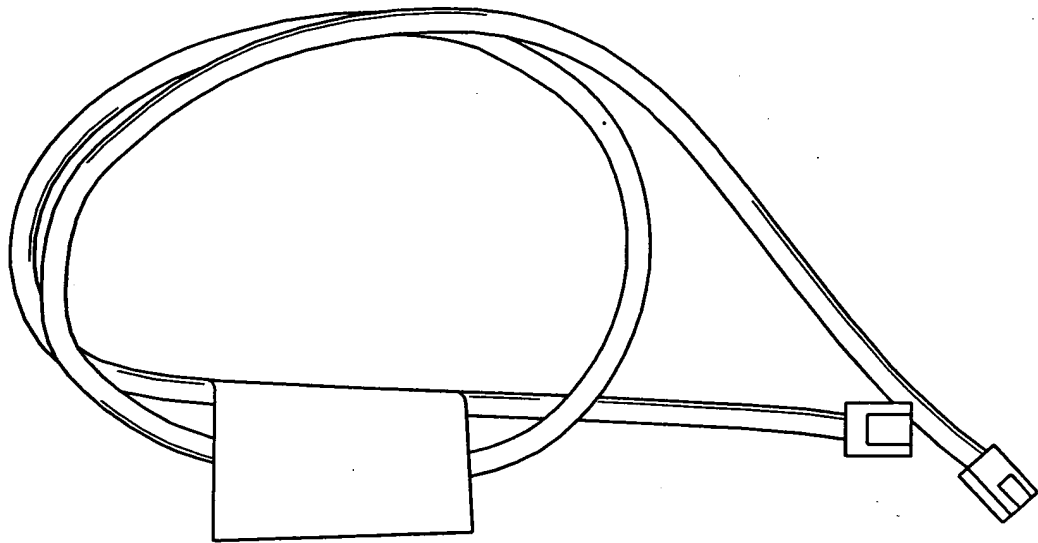


FIG. 1D

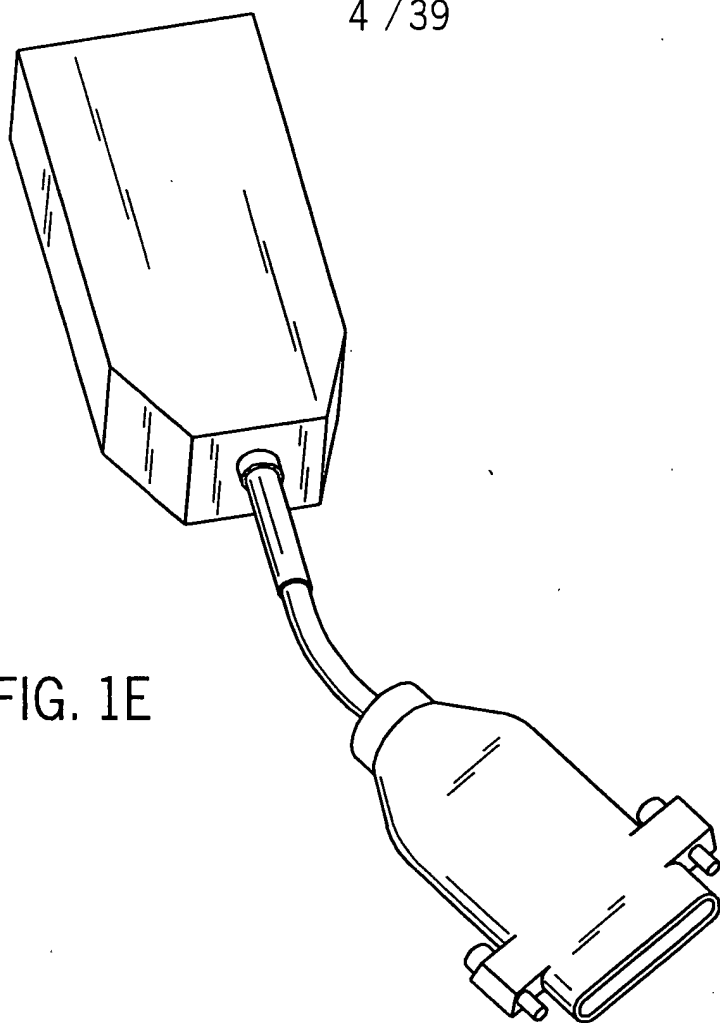


FIG. 1E

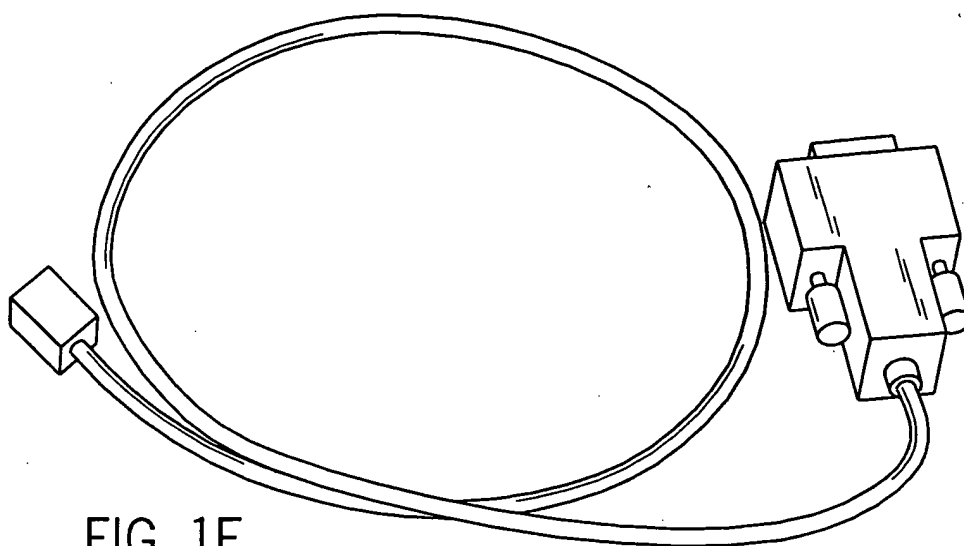


FIG. 1F

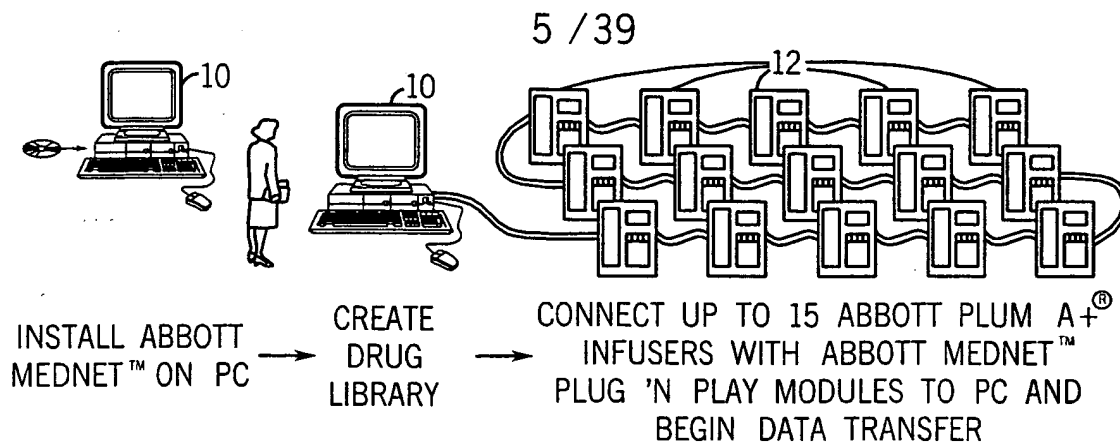


FIG. 2

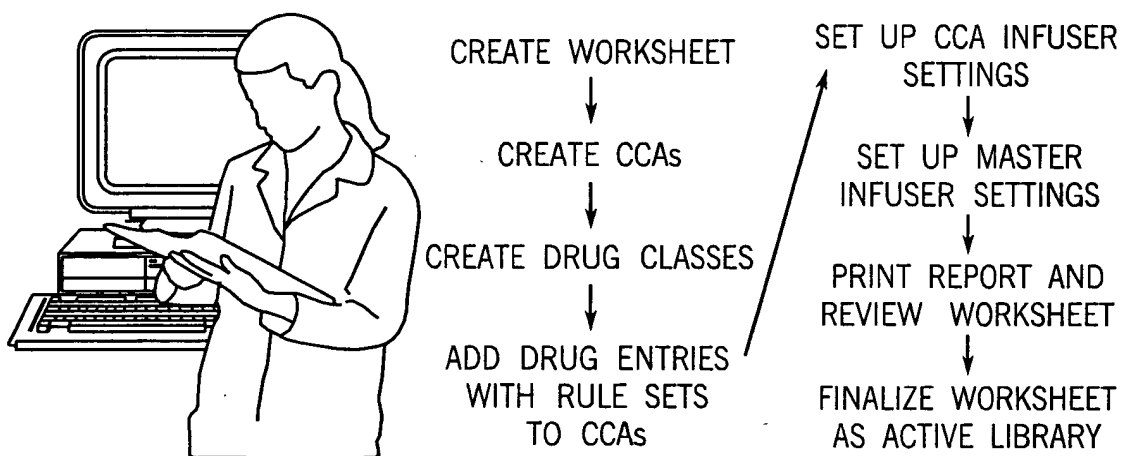
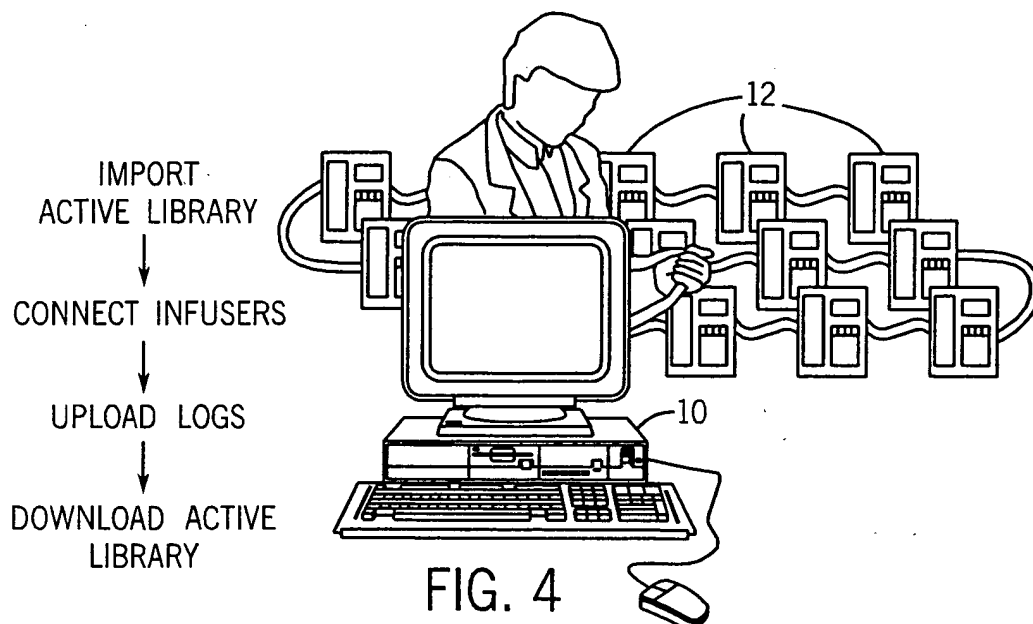


FIG. 3



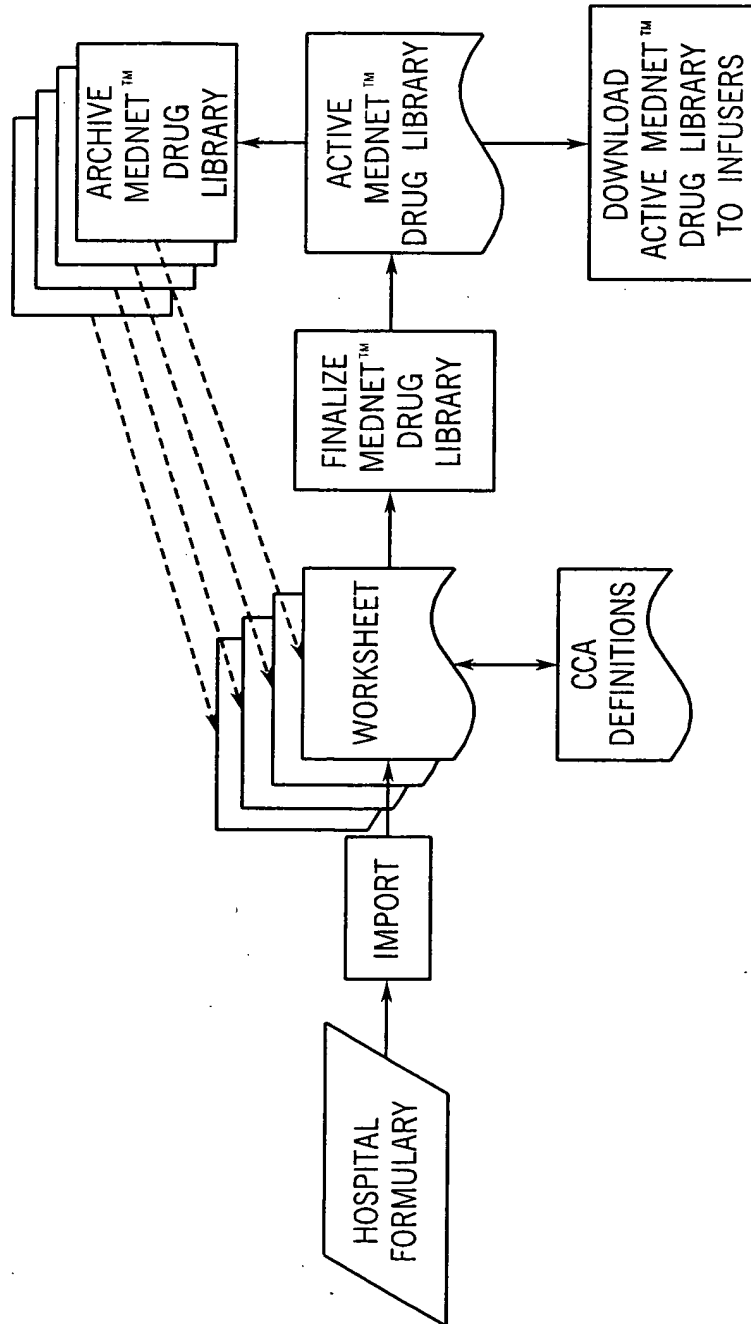


FIG. 4A

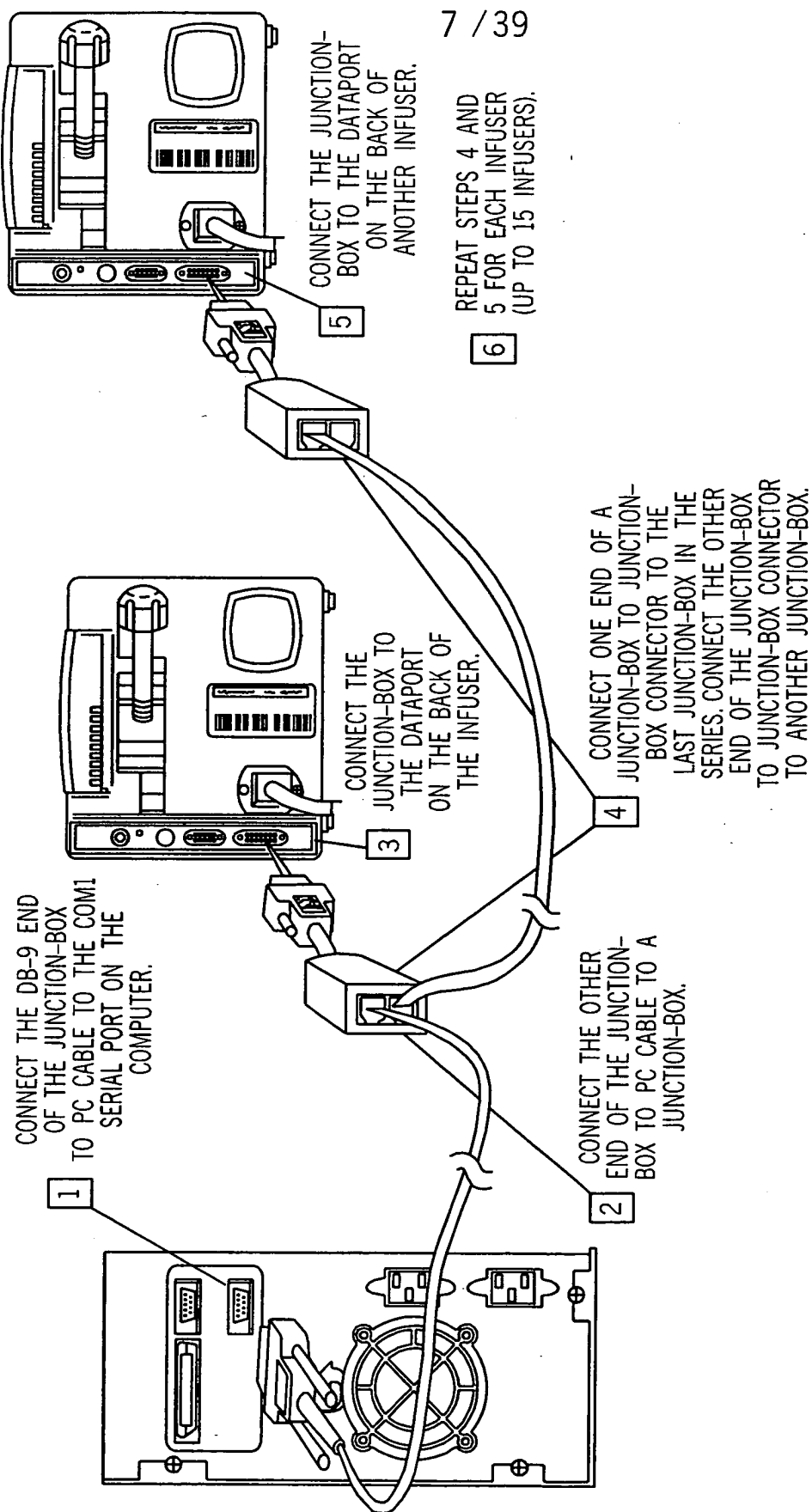


FIG. 5

18 Drug Library Management Infuser Download / Upload Reports CCA Setup Drug Class Setup Master Infuser Setup

ICU Target List: ICU

Remove from CCA Arrange Drug List Close Help

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Drug Name	Drug Class	Drug Amount	Drug Unit	Diluent Amount	Diluent Unit	Dosing Unit	Lower Hard Limit	Lower Soft Limit	Upper Soft Limit	Upper Hard Limit	Rule Set
Fentanyl	None	None	mg	None	mL	mL/hr	None	None	None	None	None
Fluconazole	None	None	mg	None	mL	mL/hr	None	None	None	None	None
:	:	:	:	:	:	:	:	:	:	:	:
fosfamide	None	None	mg	None	mL	mL/hr	None	None	None	None	None
Insulin	None	None	UNITS	None	mL	units/hr	None	None	None	None	None

Default Occlusion Pressure 6 Minimum Patient Weight 0.1 Maximum Patient Weight 500 Maximum Rate 999

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Master Drug Formulary

Source List: Master Drug Formulary

Delete from Master Formulary View Copy to Target CCA

Drug Name	Drug Class	Drug Amount	Drug Unit	Diluent Amount	Diluent Unit	Dosing Unit	Lower Hard Limit	Lower Soft Limit	Upper Soft Limit	Upper Hard Limit	Rule Set
NoDrugSelected	None	None	mg	None	mL	mL/hr	None	None	None	None	None
Abciximab	None	None	mg	None	mL	mcg/kg/min	None	None	None	None	None
Acyclovir	None	None	mg	None	mL	mL/hr	None	None	None	None	None
:	:	:	:	:	:	:	:	:	:	:	:
Amiodarone	None	None	mg	None	mL	mg/min	None	None	None	None	None
Amphotericin B	None	None	mg	None	mL	mL/hr	None	None	None	None	None

Finalize

FIG. 6



Infuser Library Version	Infuser Serial #	CCA Name	Event Type	Alert Time	Channel And Step #	Drug Name	Drug Cont	Limit Violated	Limit Value	Limit Dosing Unit	Attempted Dose	Override ?	Program Confirmed	Intended Dose	Status
10 / 06 / 03 1.00R-D32730 1-1005	13139876	CCA 3	Override	10 / 06 / 03 16:10:05	A-1	Drug A	1000 mcg / 100 mL	Upper	90.0	mcg / kg / hr	100	Yes	Yes	100	Complete
10 / 06 / 03 1.00R-D32730 1-1005	13139876	CCA 3	Override	10 / 06 / 03 16:27:28	A-1	Drug B	100 grams / 1000 mL	Upper	100	mL / hr	101	Yes	Yes	101	Complete

FIG. 7

COLUMN NAME	DESCRIPTION	EXAMPLE
INFUSER LIBRARY VERSION	THE DRUG LIBRARY NAME AS IT IS STORED IN THE INFUSER.	10 / 06 / 03 1.00R-0327301-1005
INFUSER SERIAL NUMBER	THE INFUSER SERIAL NUMBER.	13139876
CCA NAME	THE CCA NAME.	CCA 3
EVENT TYPE	THE TYPE OF OVERRIDE: SOFT LIMIT ALERT OR SOFT LIMIT OVERRIDE. A SOFT LIMIT ALERT IS AN OVERRIDE THAT WAS CANCELLED. A SOFT LIMIT OVERRIDE IS AN OVERRIDE THAT WAS ACCEPTED.	OVERRIDE
ALERT TIME	THE DATE AND TIME THE ALERT OR OVERRIDE OCCURRED.	10 / 6 / 2003 16:29
CHANNEL AND STEP NUMBER	THE CHANNEL (LINE A OR LINE B) AND STEP NUMBER OF THE THERAPY IN WHICH THE OVERRIDE OR ALERT OCCURRED.	B - 1
DRUG NAME	THE NAME OF THE DRUG.	DRUG C
DRUG CONCENTRATION	THE DRUG CONCENTRATION.	50 mg / 100 mL
LIMIT VIOLATED	THE SOFT LIMIT TYPE THAT WAS OVERRIDDEN: UPPER OR LOWER.	LOWER
LIMIT VALUE	THE UPPER OR LOWER SOFT LIMIT VALUE IN THE DRUG ENTRY'S RULE SET.	10
LIMIT DOSING UNIT	THE DRUG DOSING UNIT.	mg / hr
ATTEMPTED DOSE	THE RATE VALUE ENTERED THAT VIOLATES A RULE SET.	9
OVERRIDE?	THE USER'S RESPONSE TO THE FIRST CONFIRMATION SCREEN WHEN PROGRAMMING A RATE THAT WOULD VIOLATE A RULE SET.	YES
PROGRAM CONFIRMATION	THE USER'S RESPONSE TO THE SECOND CONFIRMATION SCREEN WHEN PROGRAMMING A RATE THAT WOULD VIOLATE A RULE SET.	YES
INTENDED DOSE	THE DOSE THAT WAS PROGRAMMED AND DELIVERED.	9
STATUS	THE COMPLETENESS OF THE EVENT RECORD (EITHER COMPLETE OR PARTIAL). A PARTIAL EVENT IS ONE THAT IS PARTIALLY ERASED. THIS MAY OCCASIONALLY HAPPEN TO THE LAST EVENT IN THE INFUSER'S MEMORY BECAUSE THE OLDEST INFORMATION IS ERASED WHEN THE INFUSER'S MEMORY BECOMES FULL.	COMPLETE

FIG. 7A

CCA: ICU

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MEDICATION: DOPAMINE 400 mg / 250 mL

TYPE OF ALERT PRESENTED	NUMBER	USER RESPONSE		
		OVERRIDE-YES	OVERRIDE-NO	CONFIRM PROGRAM-NO
LOWER HARD LIMIT	7	4	2	1
LOWER SOFT LIMIT	14	5	6	3
UPPER SOFT LIMIT	3	3	0	0
UPPER HARD LIMIT	3	0	2	1
TOTAL	27	12	10	5

FIG. 7B

MEDICATION: HEPARIN 25,000 UNITS / 250 mL

TYPE OF ALERT PRESENTED	NUMBER	USER RESPONSE		
		OVERRIDE-YES	OVERRIDE-NO	CONFIRM PROGRAM-NO
LOWER HARD LIMIT	10	4	5	1
LOWER SOFT LIMIT	13	5	6	2
UPPER SOFT LIMIT	1	1	0	0
UPPER HARD LIMIT	4	0	1	3
TOTAL	28	10	12	6

FIG. 7C

MEDICATION: INSULIN (REGULAR) 100 UNITS / 100 mL

TYPE OF ALERT PRESENTED	NUMBER	USER RESPONSE		
		OVERRIDE-YES	OVERRIDE-NO	CONFIRM PROGRAM-NO
LOWER HARD LIMIT	8	5	2	1
LOWER SOFT LIMIT	14	5	2	7
UPPER SOFT LIMIT	5	3	0	2
UPPER HARD LIMIT	2	1	1	0
TOTAL	29	14	5	10

FIG. 7D

MEDICATION: VANCOMYCIN 500 mg / 100 mL

TYPE OF ALERT PRESENTED	NUMBER	USER RESPONSE		
		OVERRIDE-YES	OVERRIDE-NO	CONFIRM PROGRAM-NO
LOWER HARD LIMIT	7	4	2	1
LOWER SOFT LIMIT	11	5	6	0
UPPER SOFT LIMIT	9	1	8	0
UPPER HARD LIMIT	9	1	8	0
TOTAL	36	11	24	1

FIG. 7E

FIG. 8A

MEDICATION: DOPAMINE 400mg / 250mL

TYPE OF ALERT PRESENTED	CCA	NUMBER	USER RESPONSE		
			OVERRIDE- YES	OVERRIDE- NO	CONFIRM PROGRAM - NO
LOWER HARD LIMIT	ICU	8	1	0	7
LOWER HARD LIMIT	MEDSURG	4	0	0	4
LOWER SOFT LIMIT	ICU	11	0	11	0
LOWER SOFT LIMIT	MEDSURG	5	5	0	0
UPPER SOFT LIMIT	ICU	2	0	0	2
UPPER SOFT LIMIT	MEDSURG	5	0	5	0
UPPER HARD LIMIT	ICU	3	3	0	0
UPPER HARD LIMIT	MEDSURG	5	0	4	1
TOTAL		43	9	20	14

FIG. 8B

MEDICATION: HEPARIN 25,000 units / 250mL

TYPE OF ALERT PRESENTED	CCA	NUMBER	USER RESPONSE		
			OVERRIDE- YES	OVERRIDE- NO	CONFIRM PROGRAM - NO
LOWER HARD LIMIT	ICU	12	5	0	7
LOWER HARD LIMIT	MEDSURG	6	2	0	4
LOWER SOFT LIMIT	ICU	11	0	11	0
LOWER SOFT LIMIT	MEDSURG	10	0	2	8
UPPER SOFT LIMIT	ICU	14	14	0	0
UPPER SOFT LIMIT	MEDSURG	4	2	0	2
UPPER HARD LIMIT	ICU	4	0	4	0
UPPER HARD LIMIT	MEDSURG	3	0	3	0
TOTAL		64	23	20	21

FIG. 8C

MEDICATION: INSULIN (REGULAR) 100 units / 100mL					
TYPE OF ALERT PRESENTED	CCA	NUMBER	USER RESPONSE		
			OVERRIDE-YES	OVERRIDE-NO	CONFIRM PROGRAM - NO
LOWER HARD LIMIT	ICU	8	1	0	7
LOWER HARD LIMIT	MEDSURG	4	0	0	4
LOWER SOFT LIMIT	ICU	11	0	11	0
LOWER SOFT LIMIT	MEDSURG	3	3	0	0
UPPER SOFT LIMIT	ICU	2	0	0	2
UPPER SOFT LIMIT	MEDSURG	1	0	1	0
UPPER HARD LIMIT	ICU	1	1	0	0
UPPER HARD LIMIT	MEDSURG	2	0	0	2
TOTAL		32	5	12	15

FIG. 8D

MEDICATION: VANCOMYCIN 500 mg / 100mL					
TYPE OF ALERT PRESENTED	CCA	NUMBER	USER RESPONSE		
			OVERRIDE-YES	OVERRIDE-NO	CONFIRM PROGRAM - NO
LOWER HARD LIMIT	ICU	10	2	1	7
LOWER HARD LIMIT	MEDSURG	7	0	3	4
LOWER SOFT LIMIT	ICU	11	0	11	0
LOWER SOFT LIMIT	MEDSURG	13	9	0	4
UPPER SOFT LIMIT	ICU	0	0	0	0
UPPER SOFT LIMIT	MEDSURG	9	3	6	0
UPPER HARD LIMIT	ICU	6	0	3	3
UPPER HARD LIMIT	MEDSURG	3	3	0	0
TOTAL		59	17	24	18

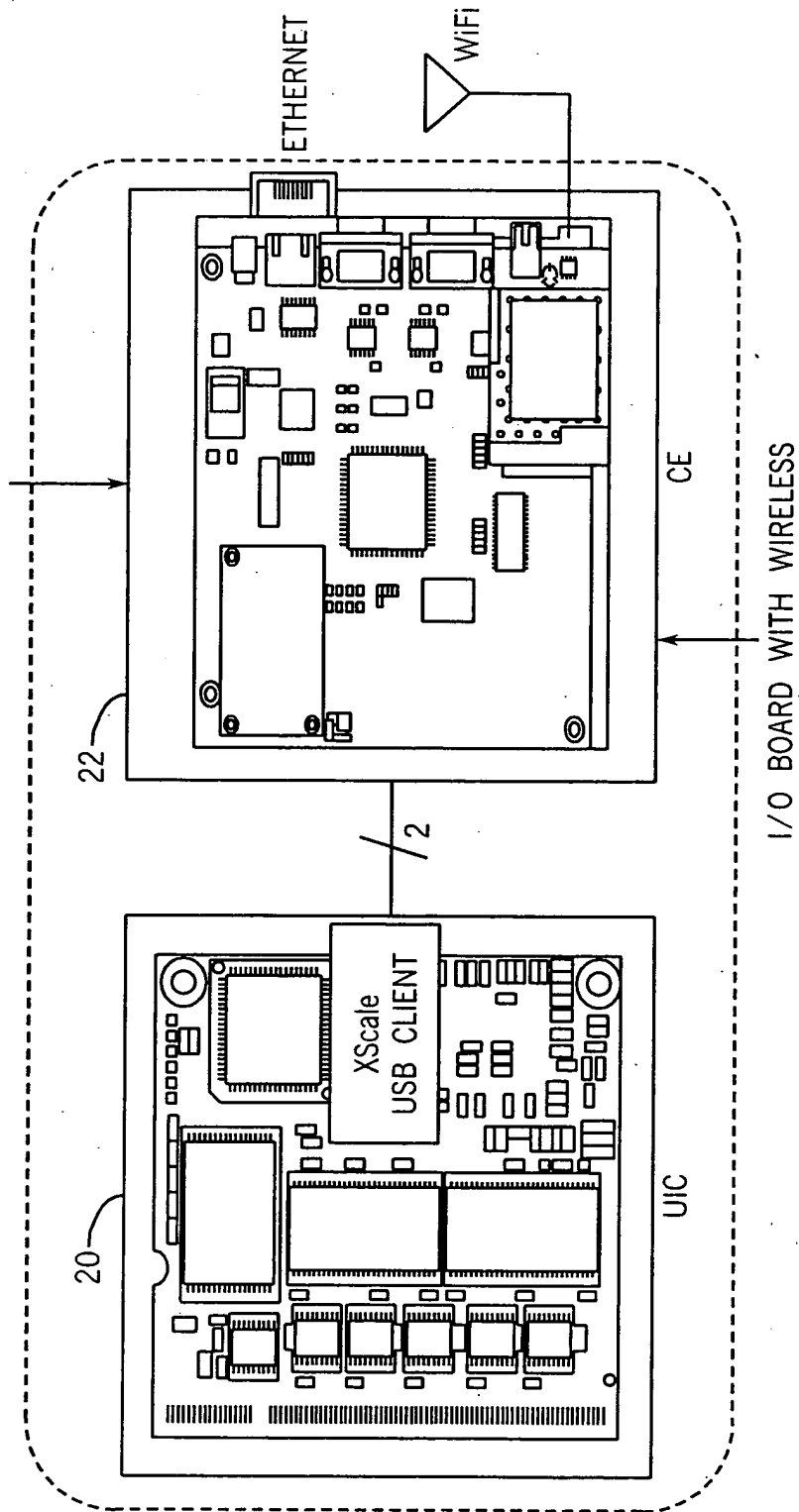


FIG. 9

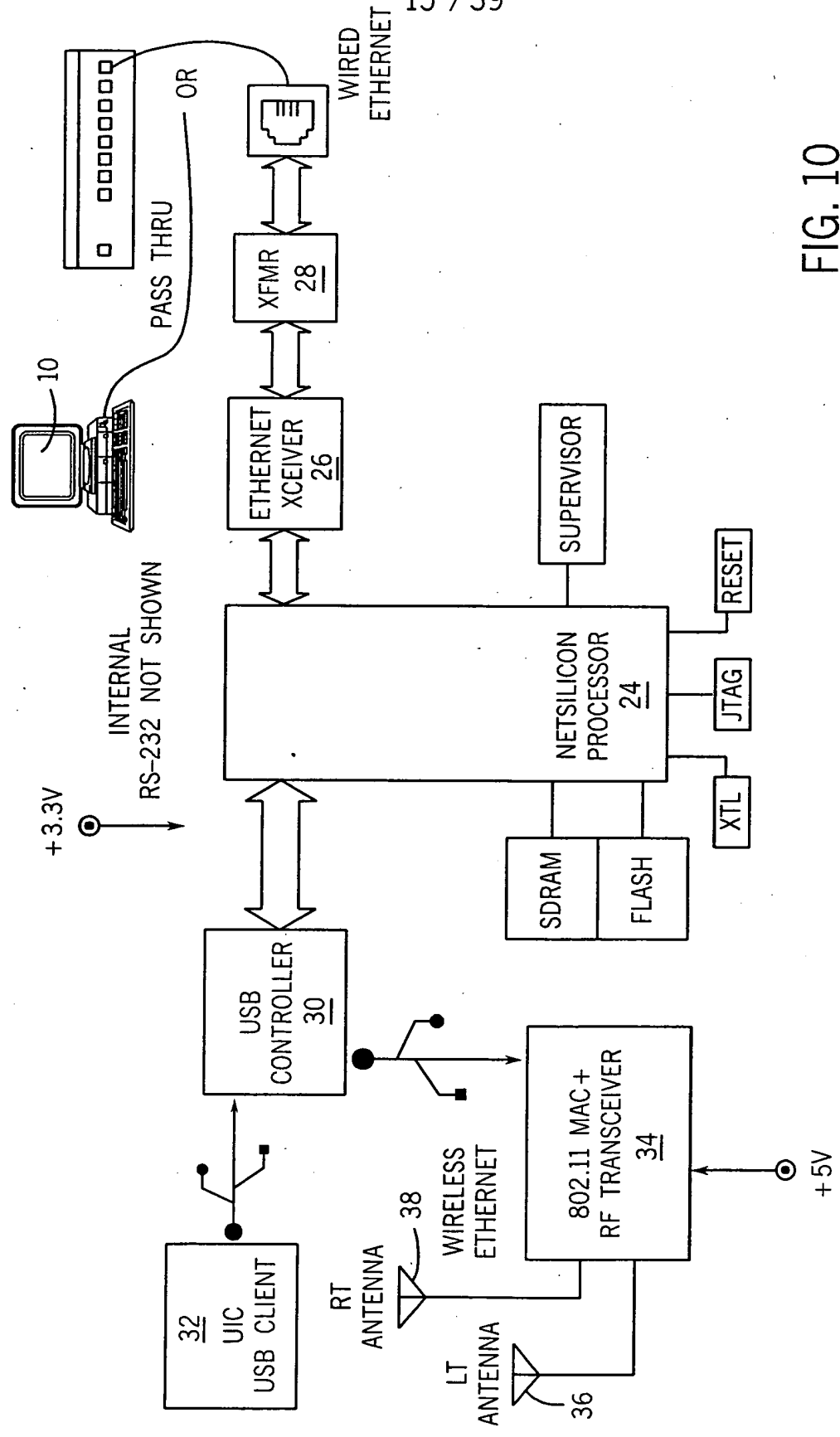


FIG. 10

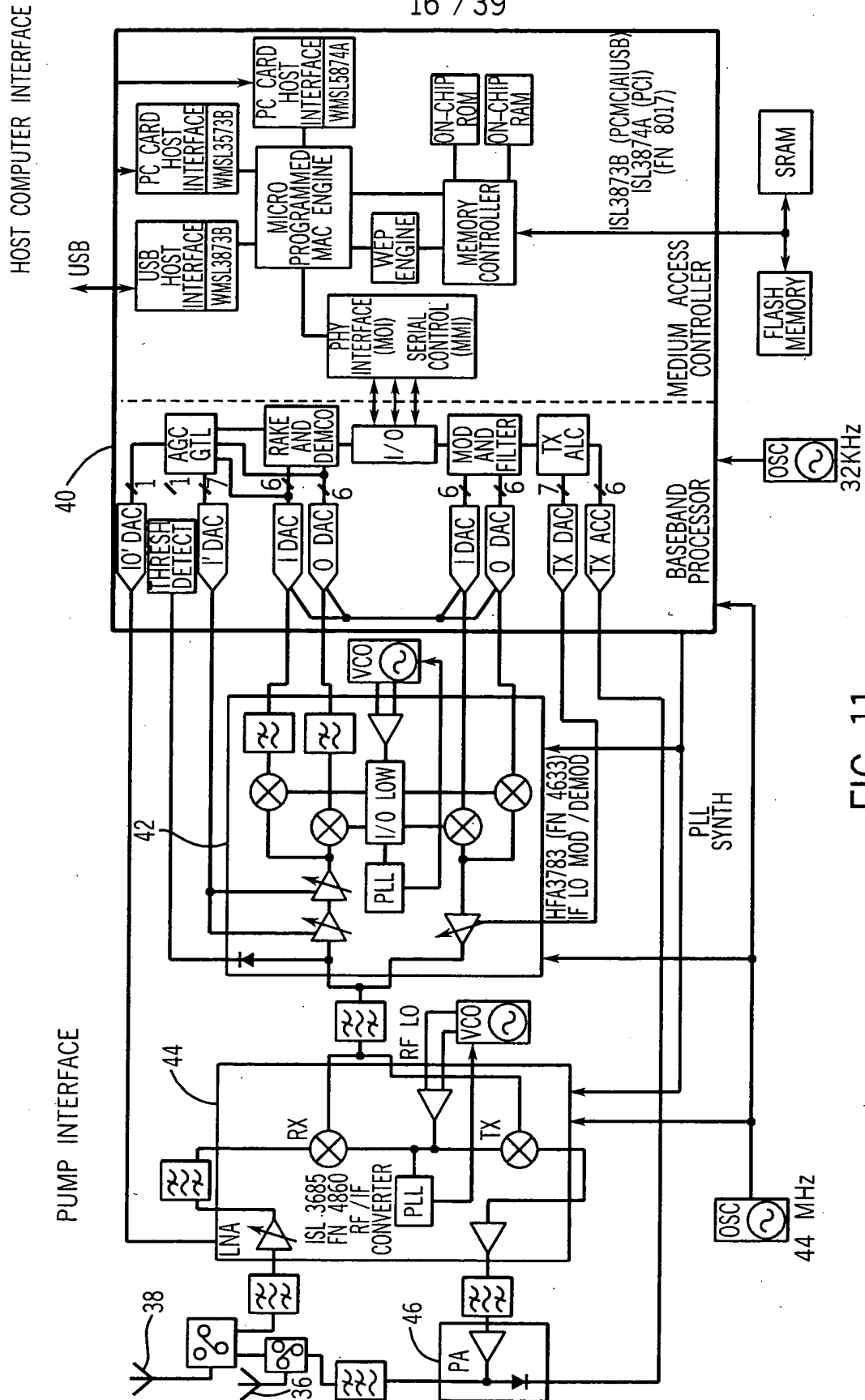


FIG. 11



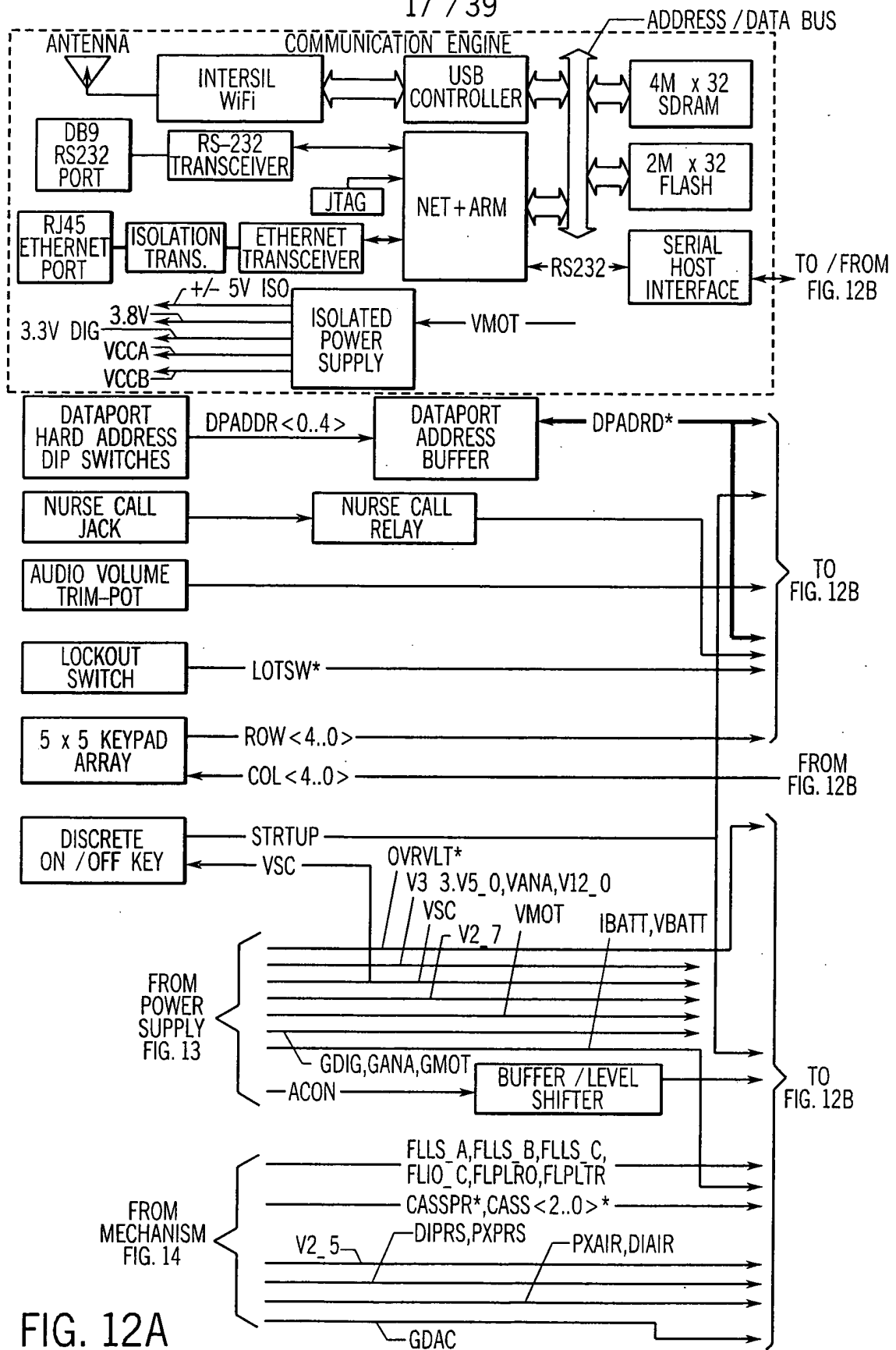


FIG. 12A

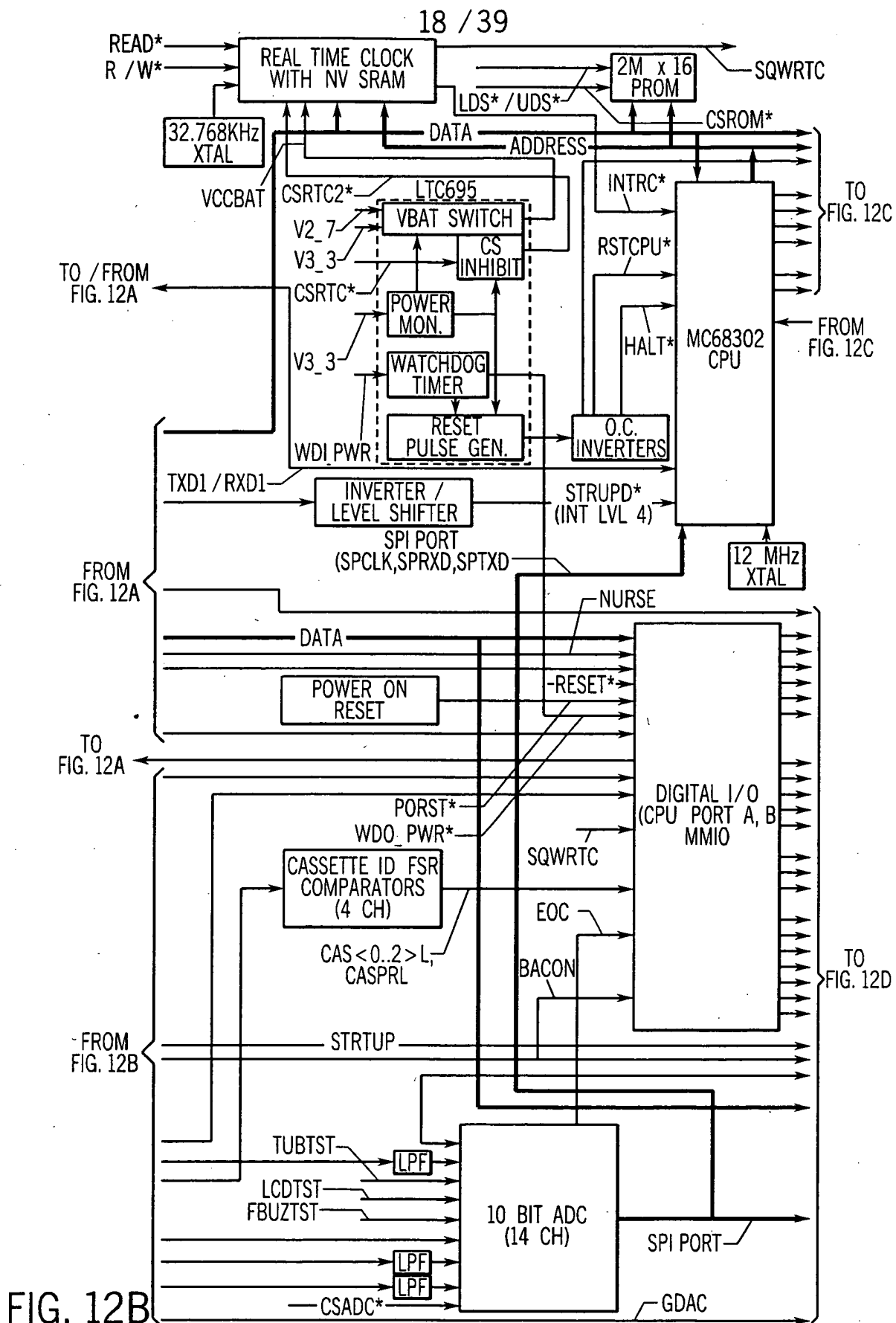


FIG. 12B

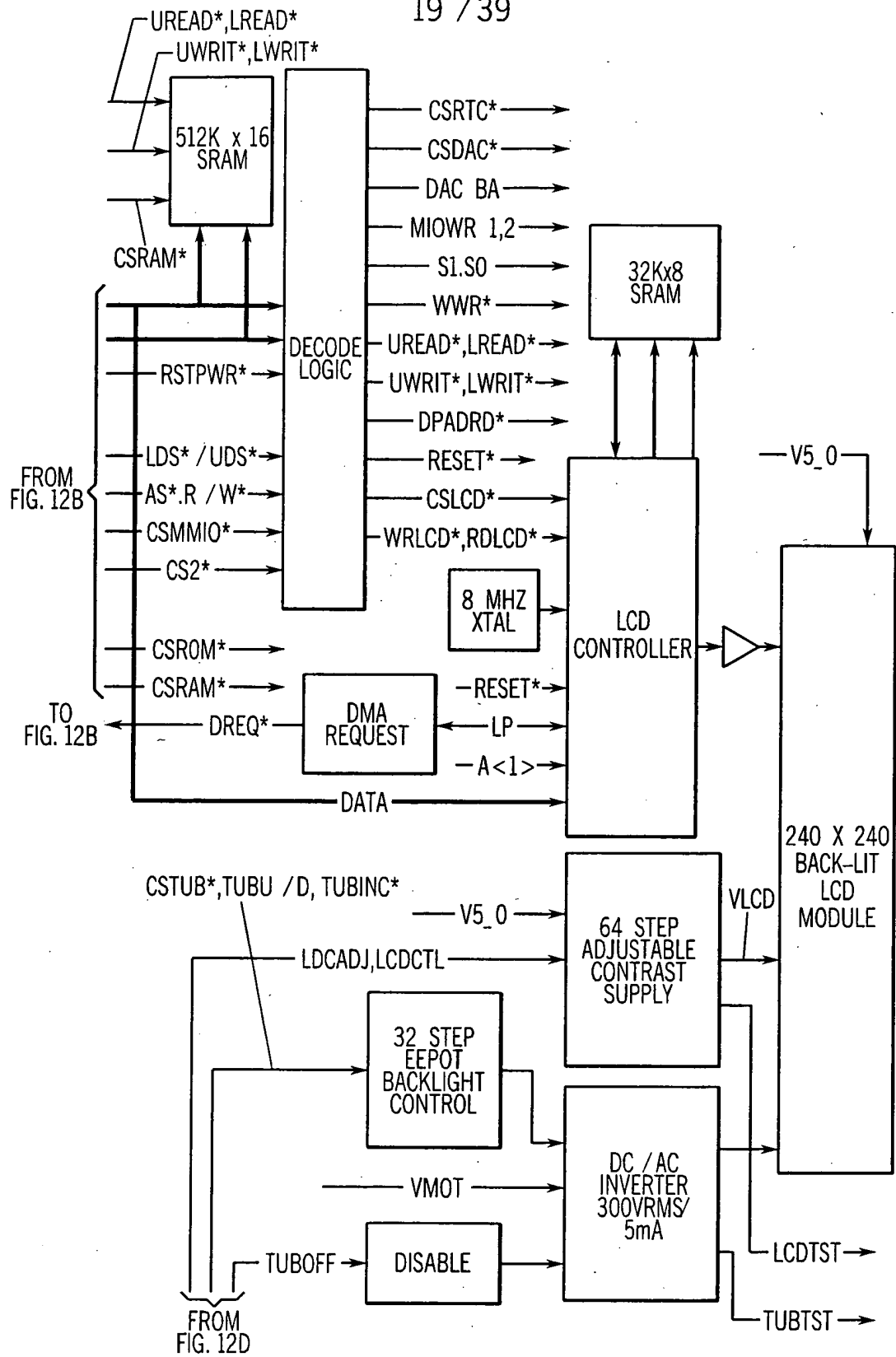


FIG. 12C

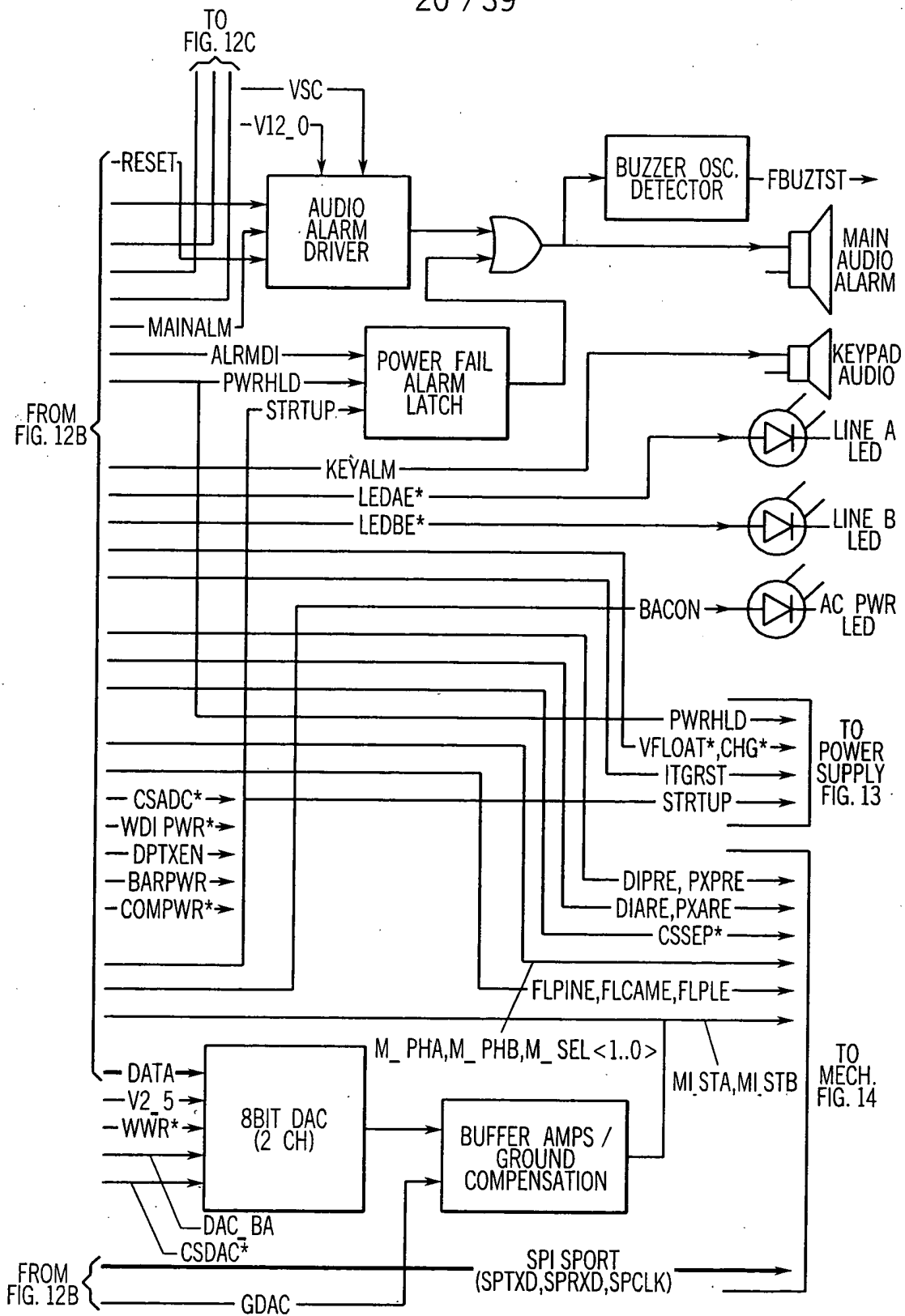
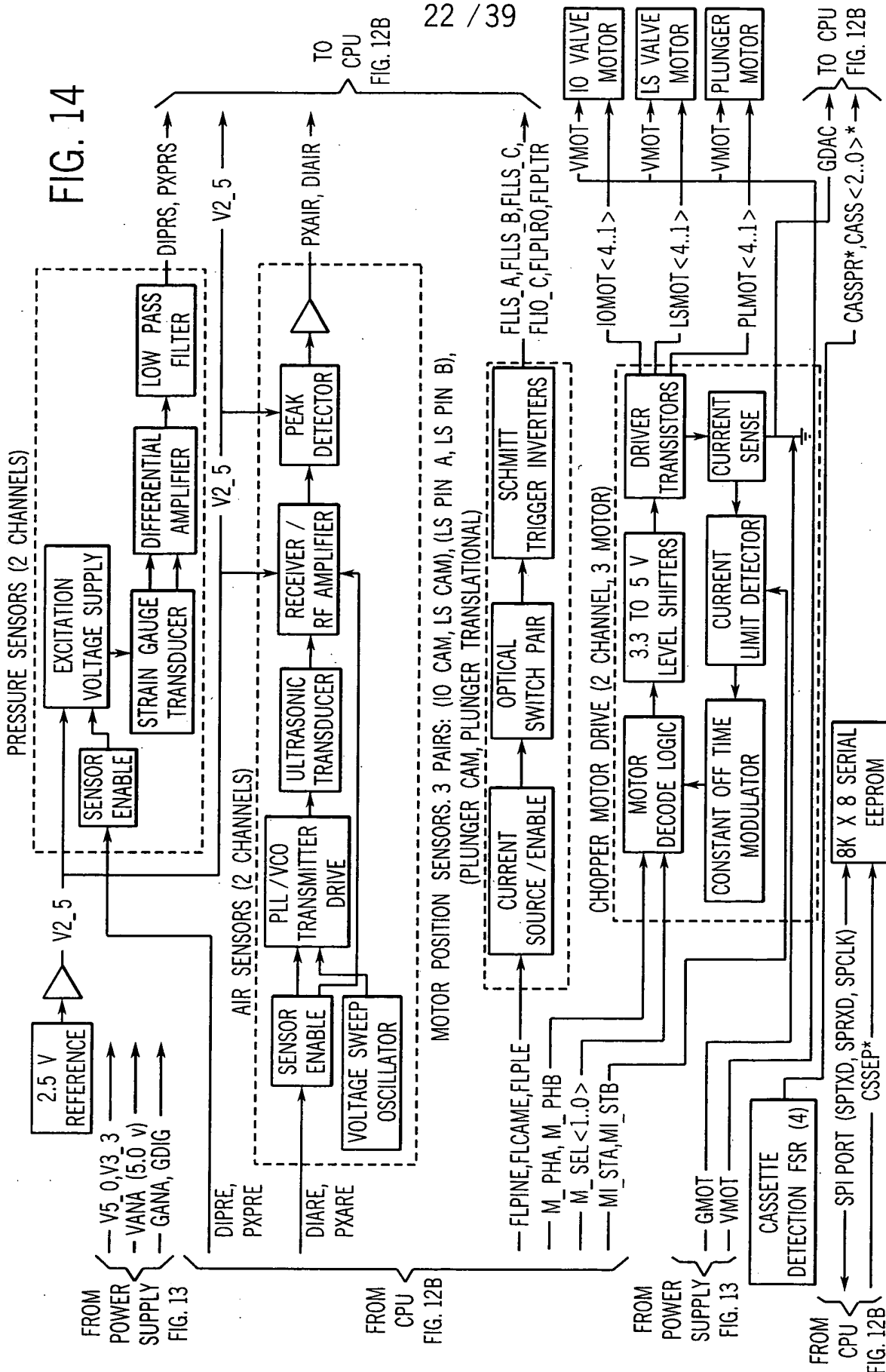


FIG. 12D



FIG. 14



Source List: Edit Rule Set

Drug Name:  Drug Class:

Rule Sets:  Acyclovir 350 mg / 50 mL Dosed in mL / hr

Drug Amount:	<input type="text" value="350"/>	Drug Unit:	<input type="text" value="mg"/>	Diluent Amount:	<input type="text" value="50"/>	Diluent Unit:	<input type="text" value="mL"/>
Dosing Unit:	<input type="text" value="mL / hr"/>	LHL: mL / hr	<input type="text" value="None"/>	LSL: mL / hr	<input type="text" value="None"/>	USL: mL / hr	<input type="text" value="10"/>
						UHL: mL / hr	<input type="text" value="None"/>

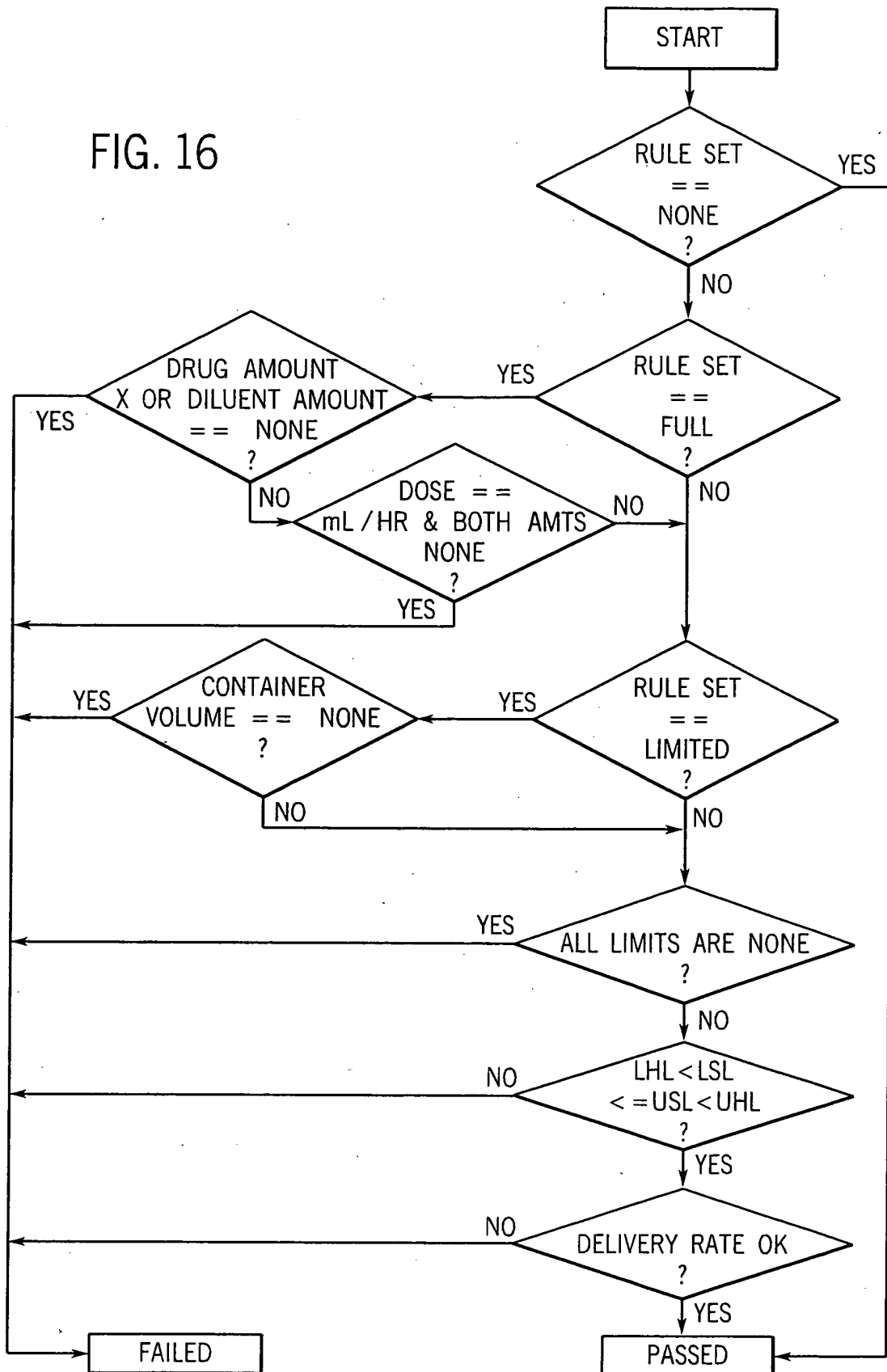
FIG. 15

DRUG UNIT	DRUG AMOUNT RANGE	DILUENT UNIT	DILUENT AMOUNT RANGE	DELIVERY DOSE / RATE UNITS	DELIVERY DOSE /RATE HARD & SOFT LIMITS RANGE
RULE SETS = FULL					
mg, mcg, grams	0.0-99.9; 100.-9999. NONE	mL	0.0-99.9, 100.-9999. NONE	mcg / kg / min, mcg / kg / hr, mcg / min, mcg / hr, mg / kg / hr, mg / min, mg / hr, grams / hr, ng / kg / min	0.000-0.999, 1.00-9.99, 10.0-99.9, 100.-999. NONE
				mL / hr	0.0-9.9, 10.0-99.9, 100.-999. NONE
mEq	0.0-99.9; 100.-9999. NONE	mL	0.0-99.9, 100.-9999. NONE	mEq / hr	0.000-0.999, 1.00-9.99, 10.0-99.9, 100.-999. NONE
				mL / hr	0.0-9.9, 10.0-99.9, 100.-999. NONE
UNITS	0.0-99.9, 100.-99999999. NONE	mL	0.0-99.9, 100-9999, NONE	units / kg / hr, units / min, units / hr, mUn / min	0.000-0.999, 1.00-9.99, 10.0-99.9, 100.-99999999. NONE
				mL / hr	0.0-9.9, 10.0-99.9, 100.-999. NONE
RULE SETS = LIMITED					
mg (NOT SET BY USER)	N / A	mL	0.0-99.9, 100.-9999. NONE	mL / hr	0.0-9.9, 10.0-99.9, 100.-999. NONE
RULE SETS = NONE					
mg, mcg, grams	N / A	N / A	N / A	mcg / kg / min, mcg / kg / hr, mcg / min, mcg / hr, mg / kg / hr, mg / min, mg / hr, grams / hr, ng / kg / min, mL / hr	N / A
MEq	N / A	N / A	N / A	mEq / hr, mL / hr	N / A
UNITS	N / A	N / A	N / A	units / kg / hr, units / min, units / hr, mUn / min, mL / hr	N / A

FIG. 15A



FIG. 16



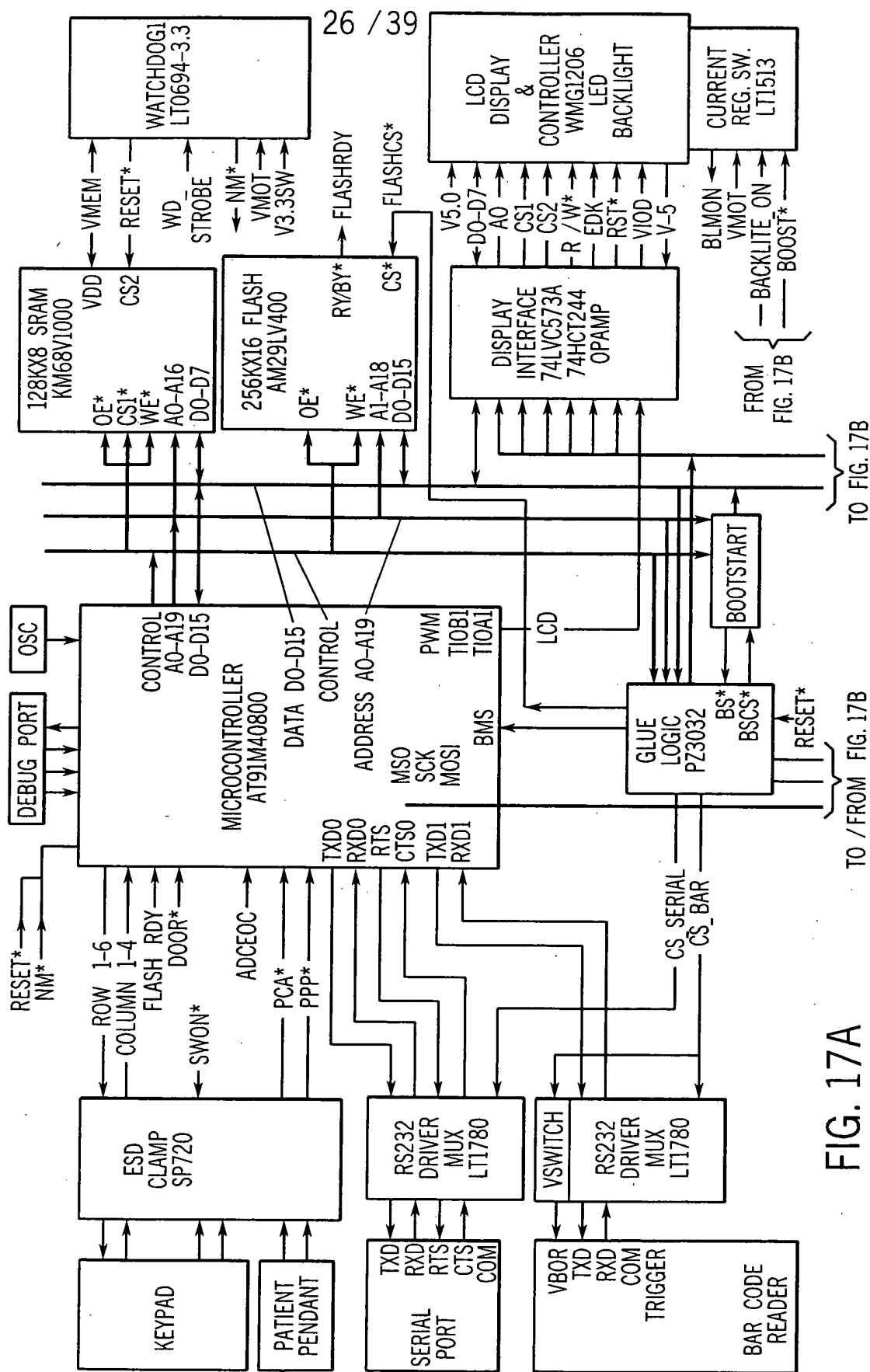


FIG. 17A

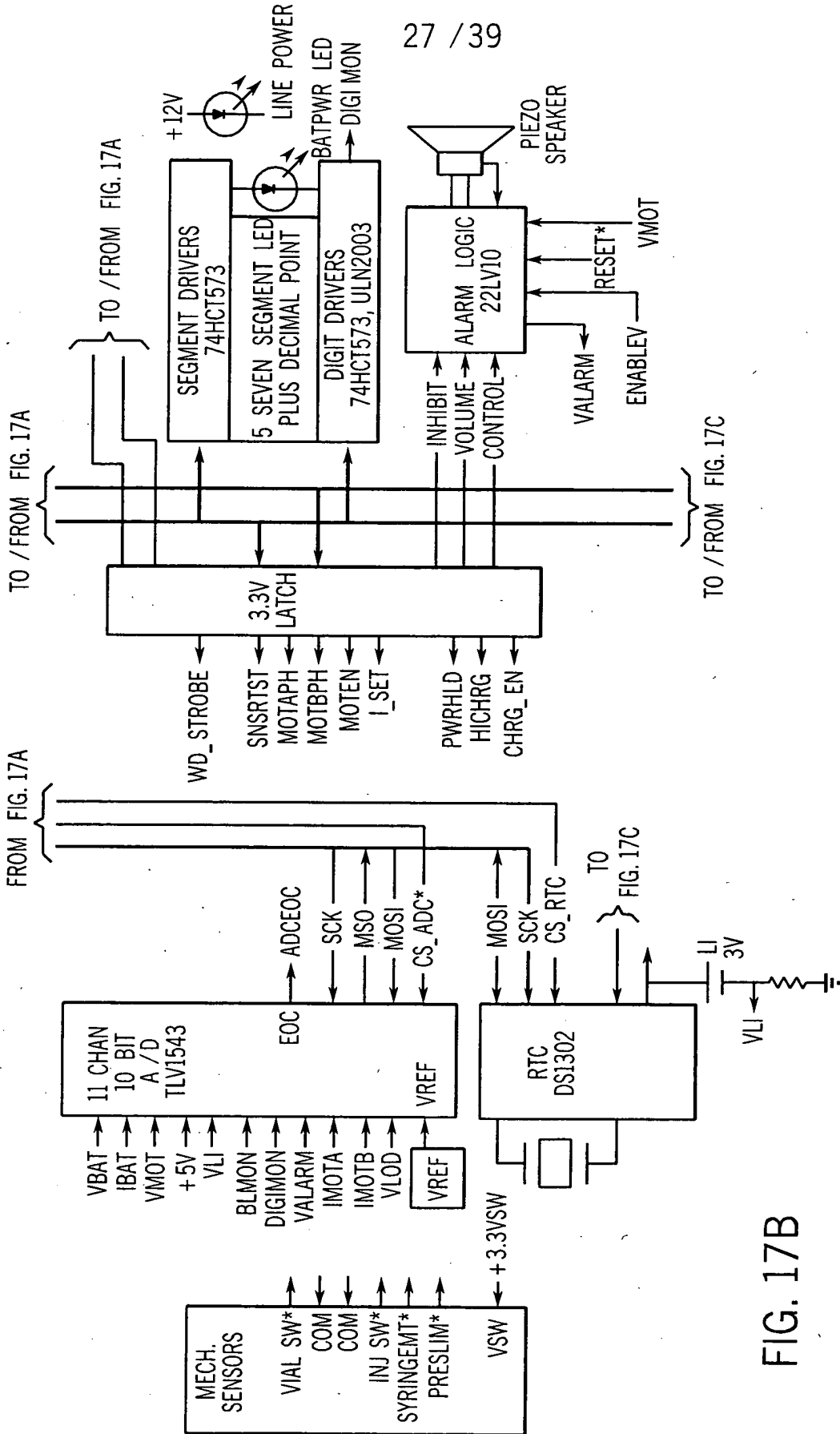
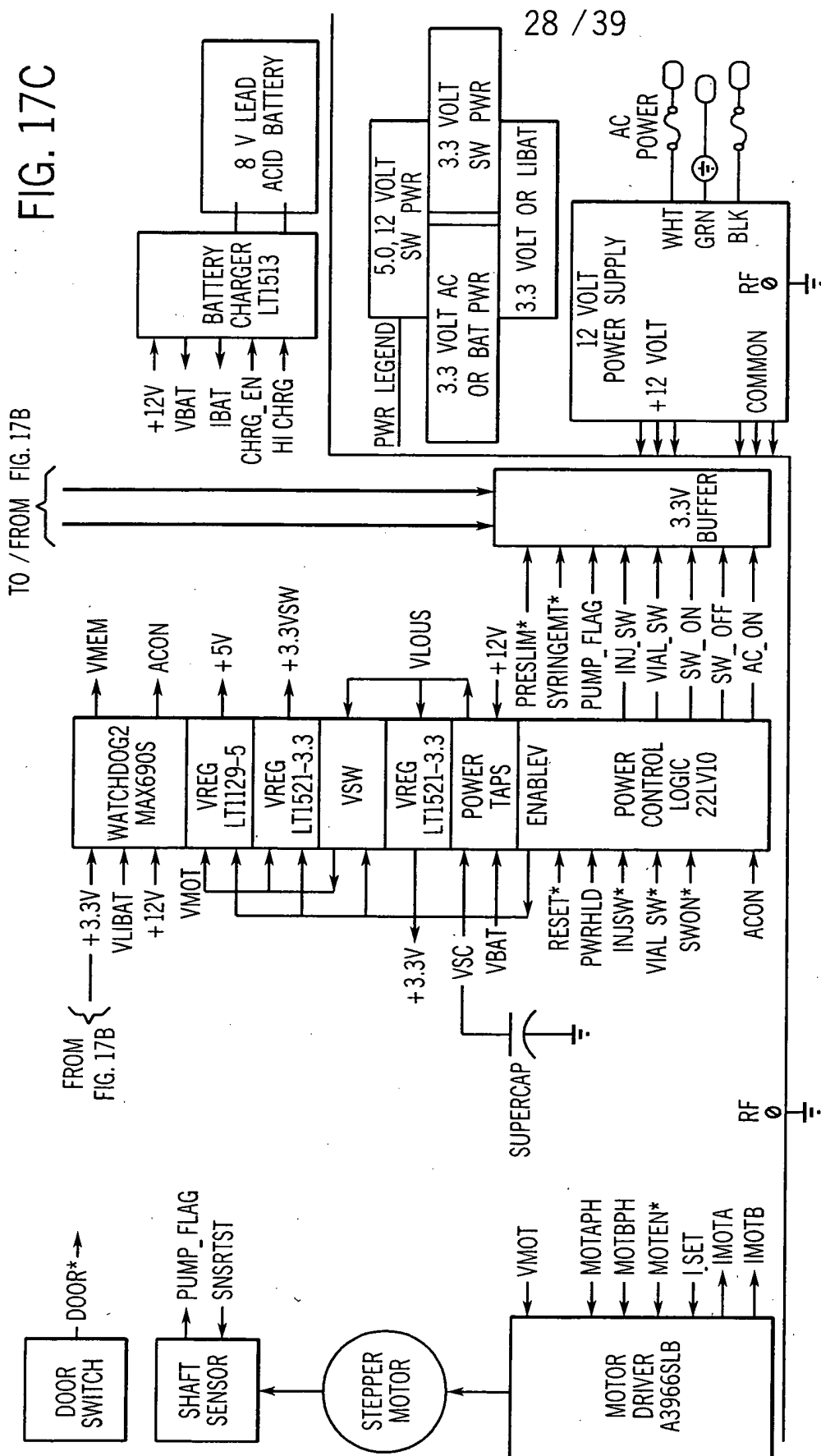


FIG. 17B



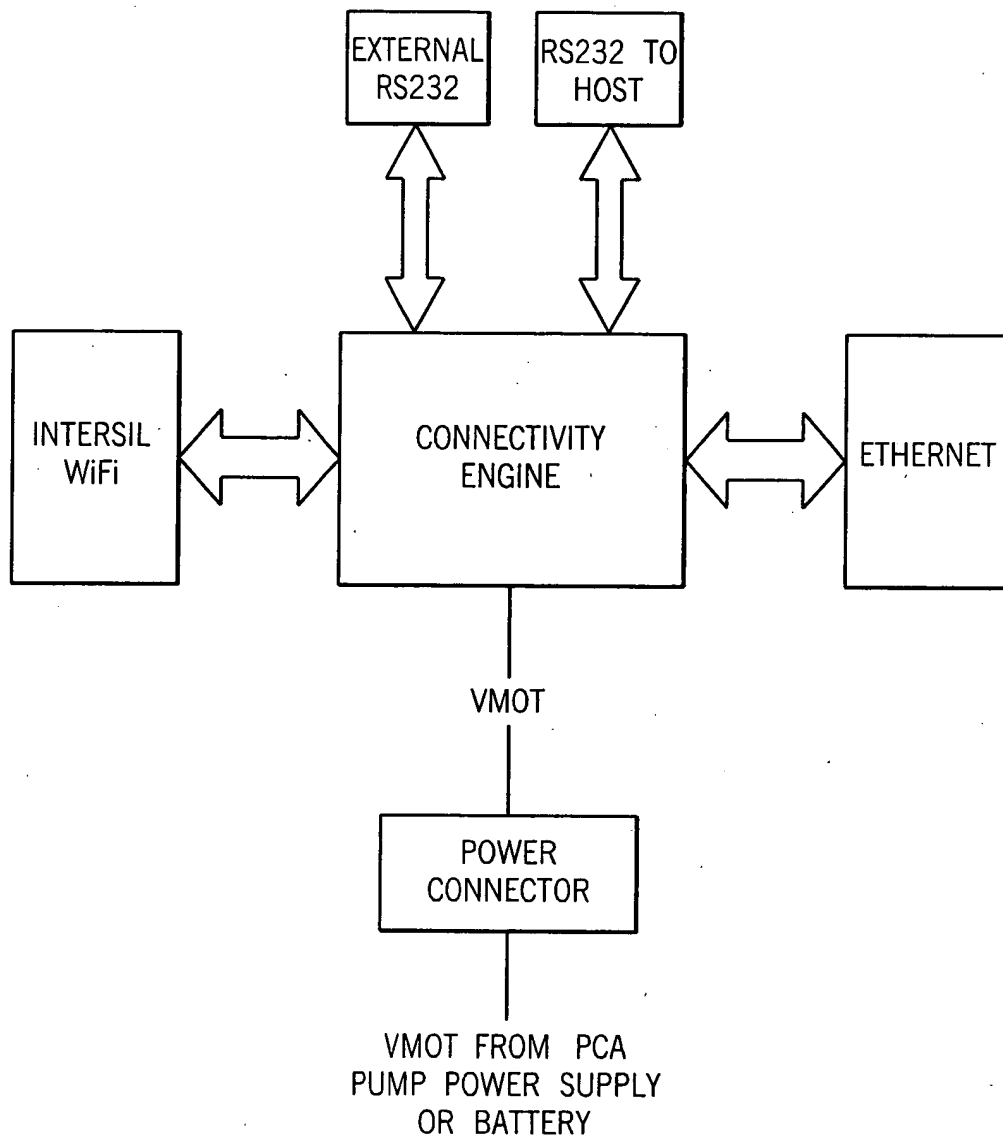


FIG. 18

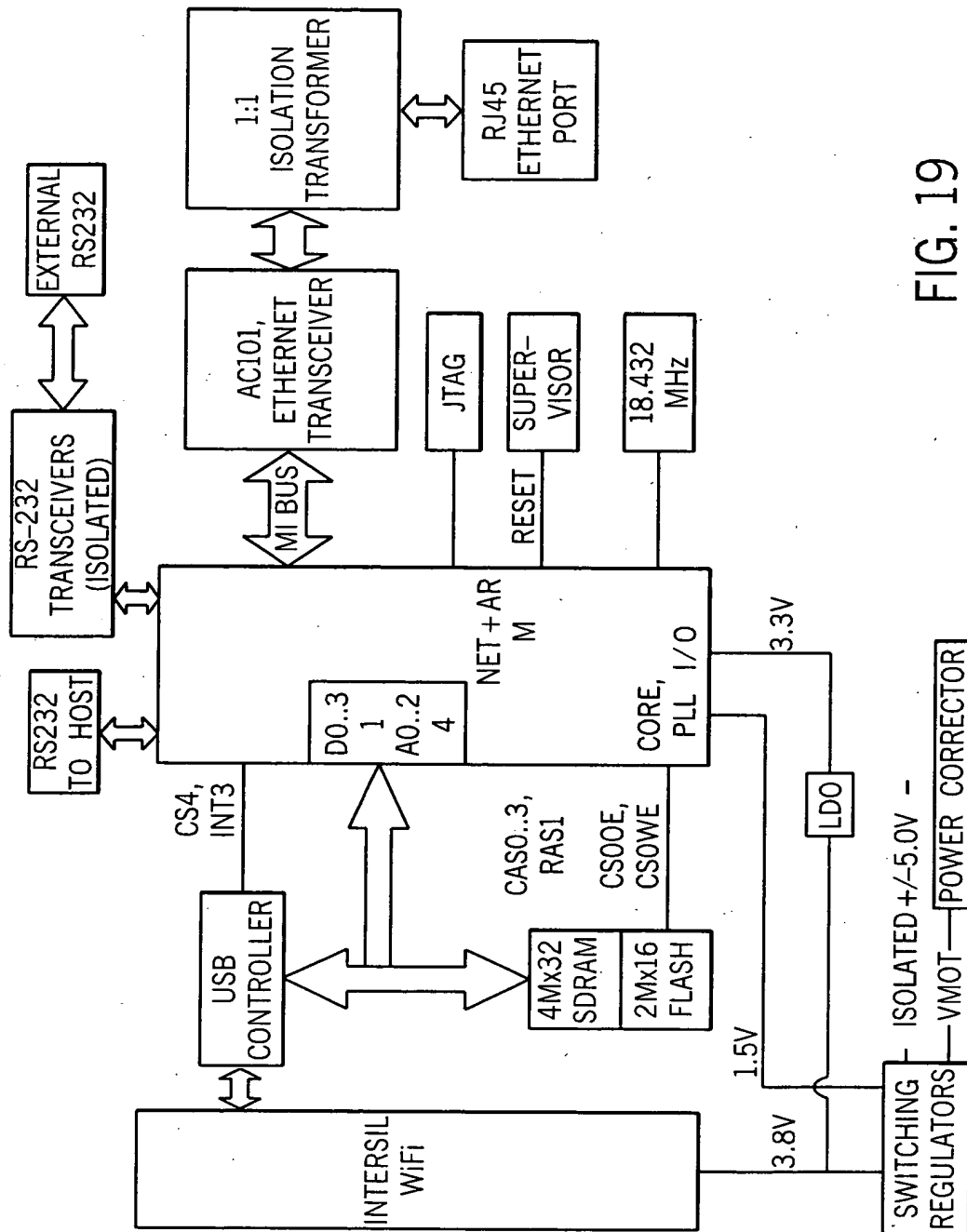


FIG. 19

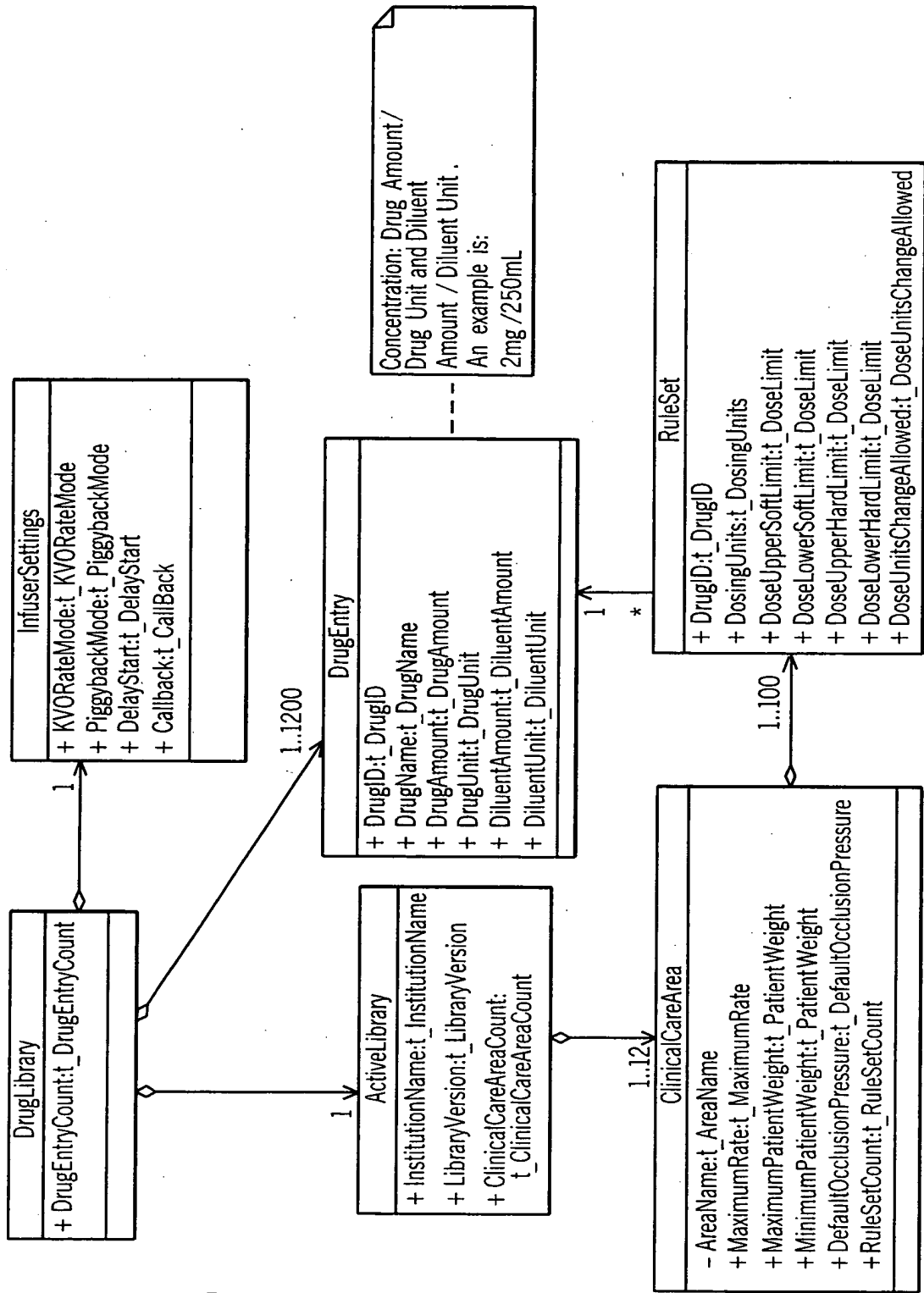


FIG. 20

Commands		Queries and Responses	
StartLibraryUpdate	VLP	QueryRevisionLevels	ARL
SetDrugLibrary	USL	QueryRevisionLevelsResponse	BRR
EndLibraryUpdate	xEU	ImpliedSchema	CMS
CalculateCCRC	cCC	ExchangeSchema	yES
CommitDrugLibrary	gML	QueryCCRC	MQC
Reboot	SRB	QueryCCRCResponse	NQR
ClearDrugLibrary	eCD	QueryDrugLibrary	OQL
		QueryDrugLibraryResponse	PQS
		QueryErrorCode	QQE
		QueryErrorCodeResponse	RQN
DrugLibrary	tDL	ActiveLibrary	aAL
DrugEntryCount	hEC	InstitutionName	EIN
		LibraryVersion	GLV
		ClinicalCareAreaCount	wAC
ClinicalCareArea	fCA	InfuserSettings	DIS
AreaName	bAN	KVORateMode	FKR
MaximumRate	JXR	PiggybackMode	LPB
MaximumPatientWeight	IXW	DelayStart	iDS
MinimumPatientWeight	KNW	Callback	dCB
DefaultOcclusionPressure	HXP		
RuleSetCount	zRC		
RuleSet	TRT	DrugEntry	rDE
DrugID	sDI	DrugID	sDI
DosingUnits	pSU	DrugName	uDN
DoseUpperSoftLimit	oUS	DrugAmount	qDA
DoseLowerSoftLimit	mLS	DrugUnit	vDU
DoseUpperHardLimit	nUH	DiluentAmount	jLA
DoseLowerHardLimit	ILH	DiluentUnit	WIL
DoseUnitsChangeAllowed	kUC		

FIG. 20A



Source List: Add Rule Set		X
Drug Name:		Drug class:
<input type="text" value="DOBUtamine"/>		<input type="text" value="None"/>
Rule Sets:		
<input type="text" value="Full"/>	<input type="text" value="DOBUtamine 500 mg / 250mL Dosed in mcg / kg / min"/>	
Drug Amount:	Drug Unit:	Diluent Amount:
<input type="text" value="500"/>	<input type="text" value="mg"/>	<input type="text" value="250"/>
	<input type="text" value="mL"/>	
Dosing Unit:	LHL: mcg / kg / min	USL: mcg / kg / min
<input type="text" value="mcg / kg / min"/>	<input type="text" value="0.5"/>	<input type="text" value="15"/>
		<input type="text" value="20"/>
<input type="button" value="Add"/> <input type="button" value="Cancel"/> <input type="button" value="Help"/>		

FIG. 21

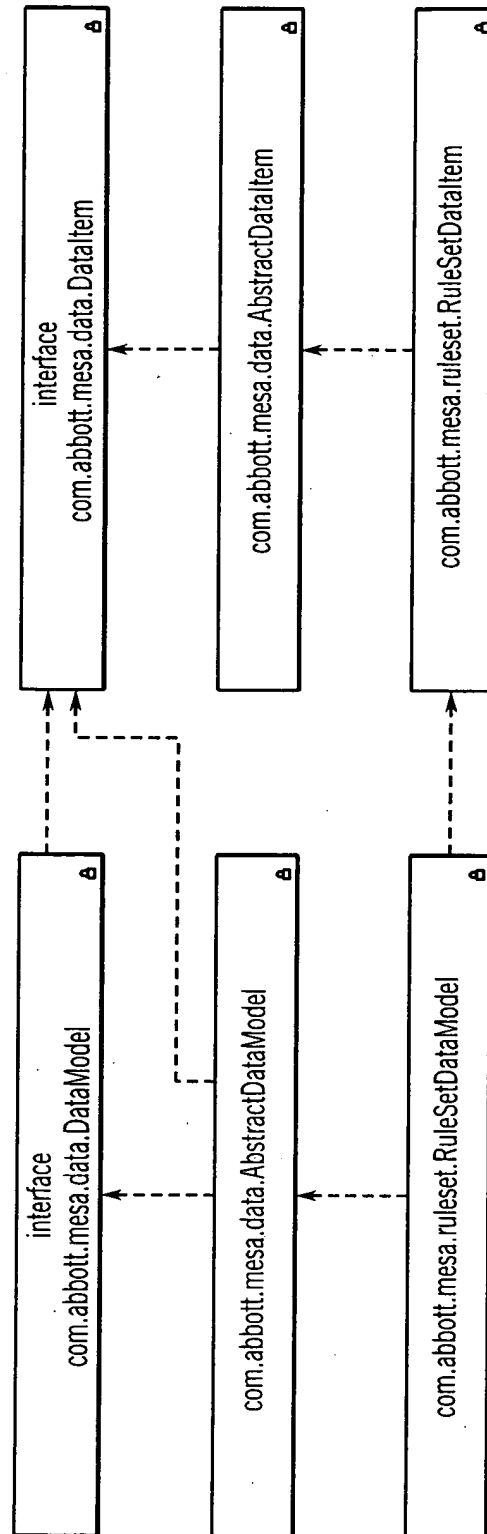
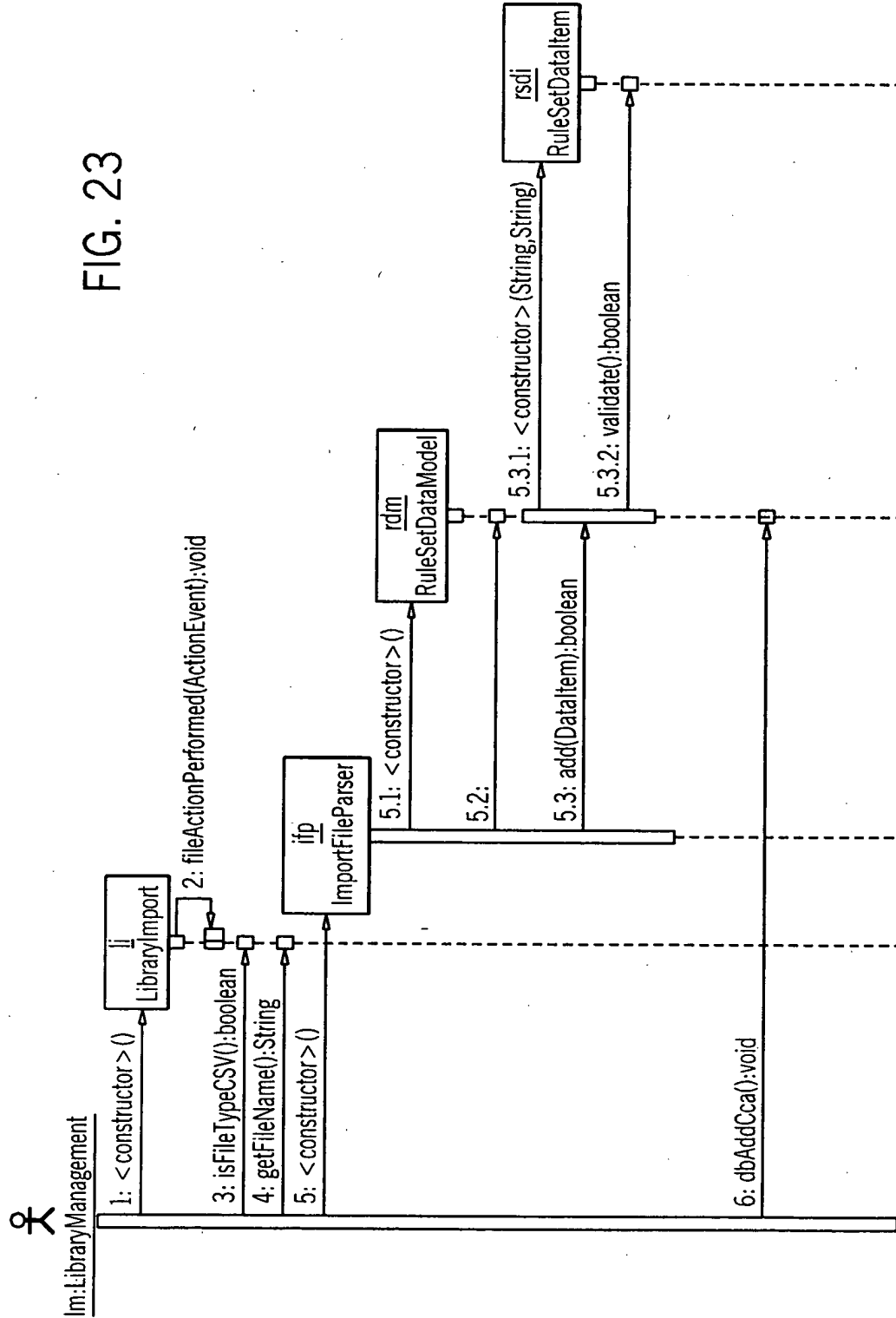


FIG. 22

FIG. 23



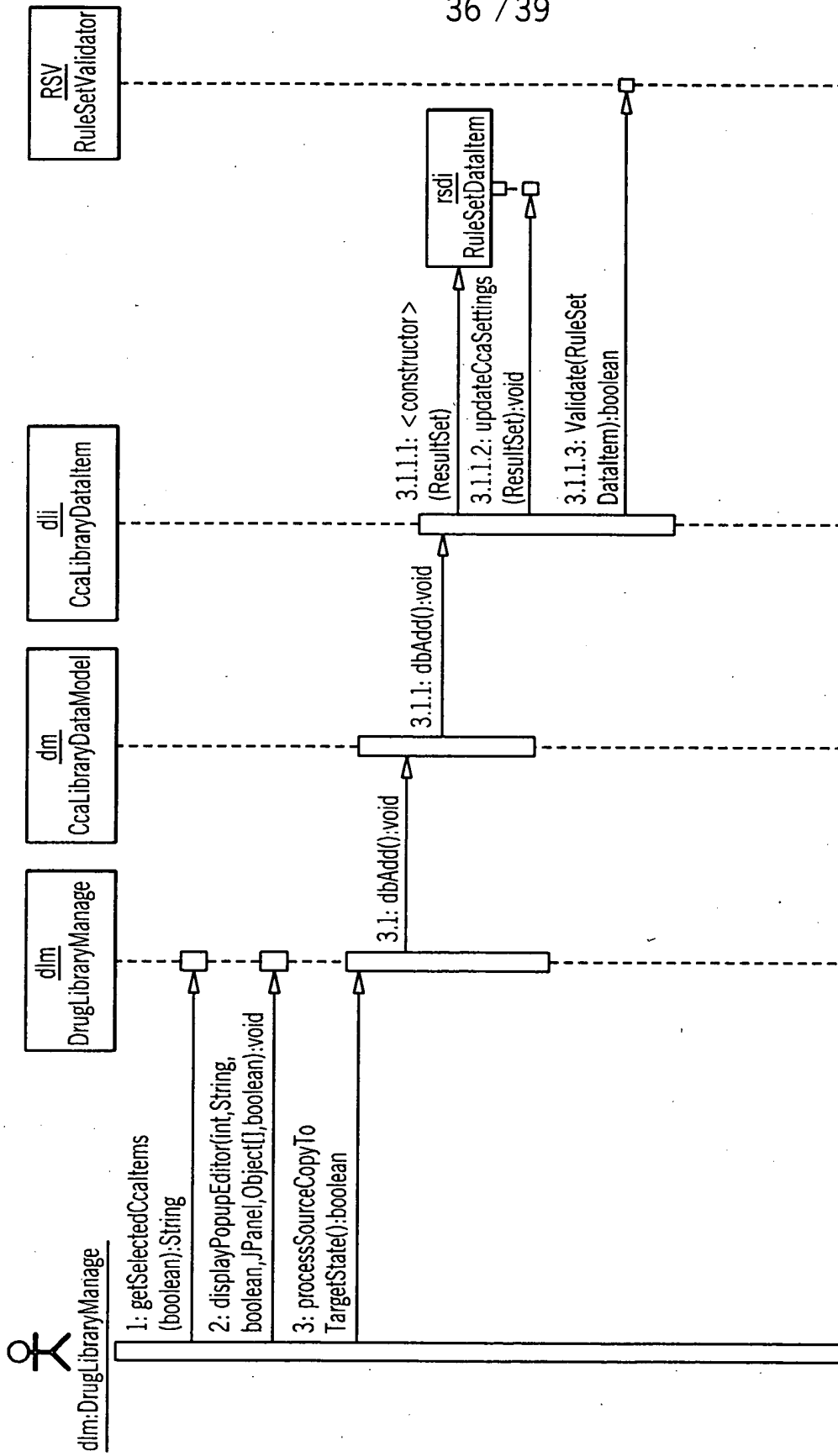


FIG. 24

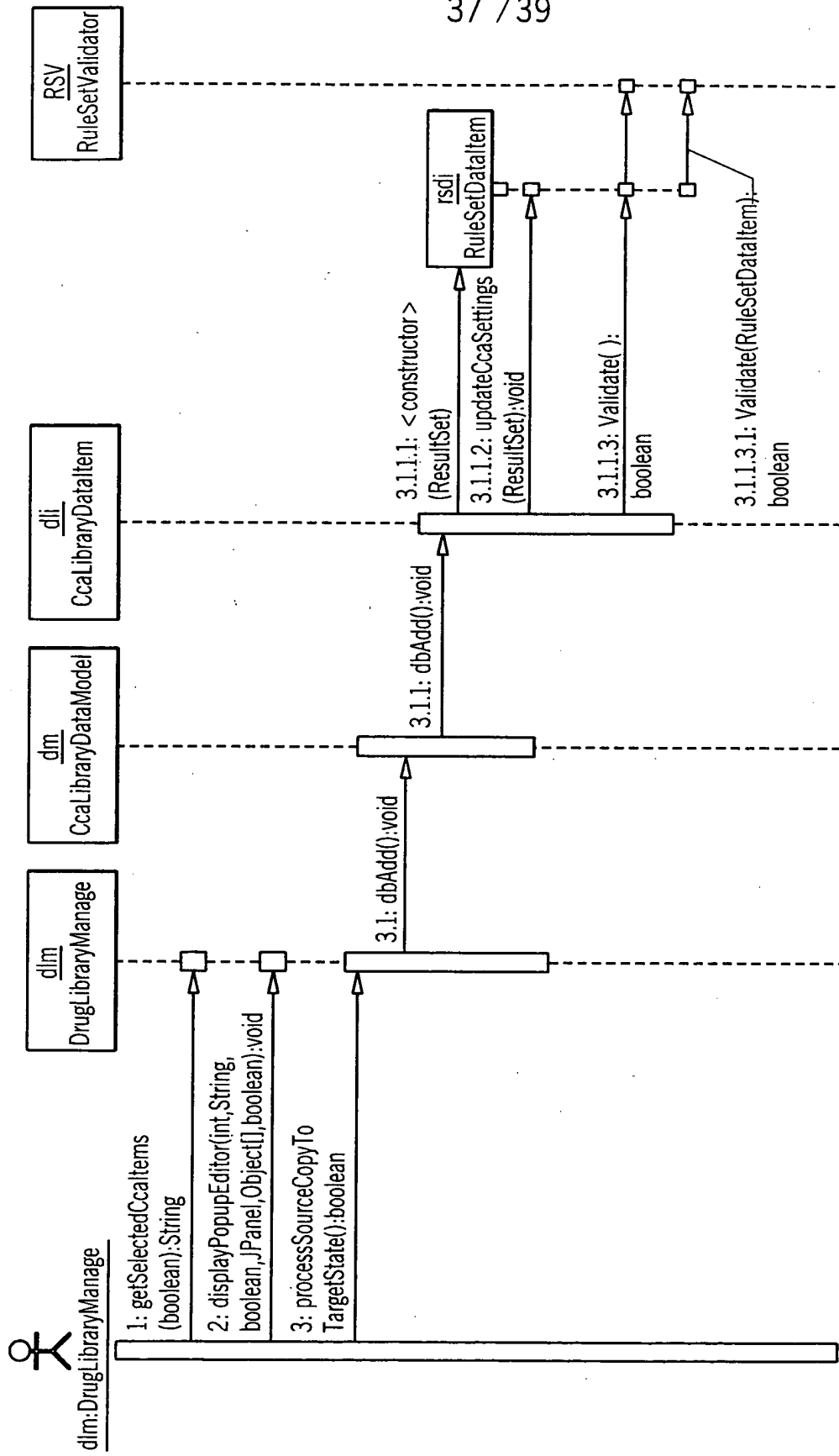


FIG. 24A

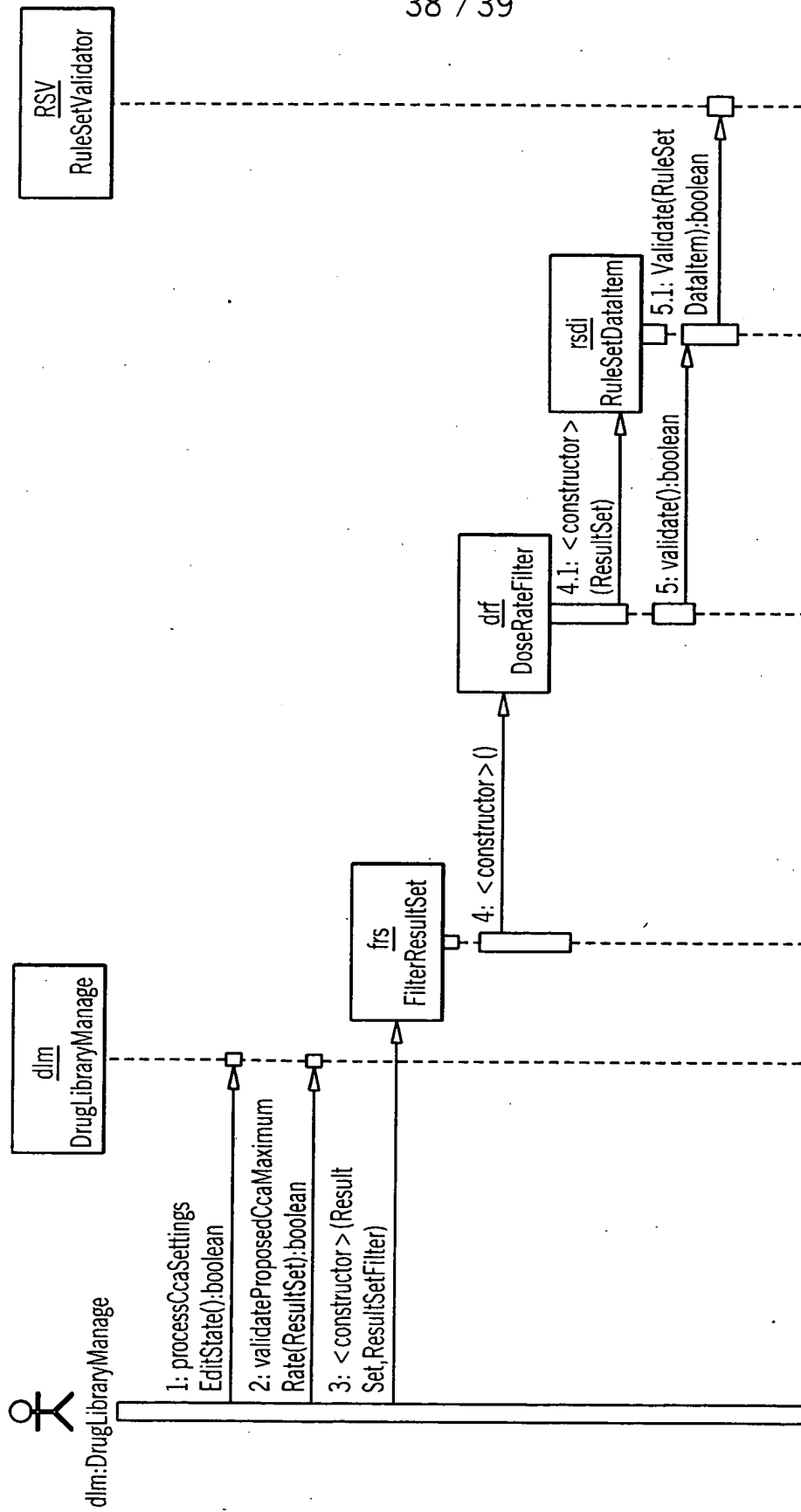


FIG. 25

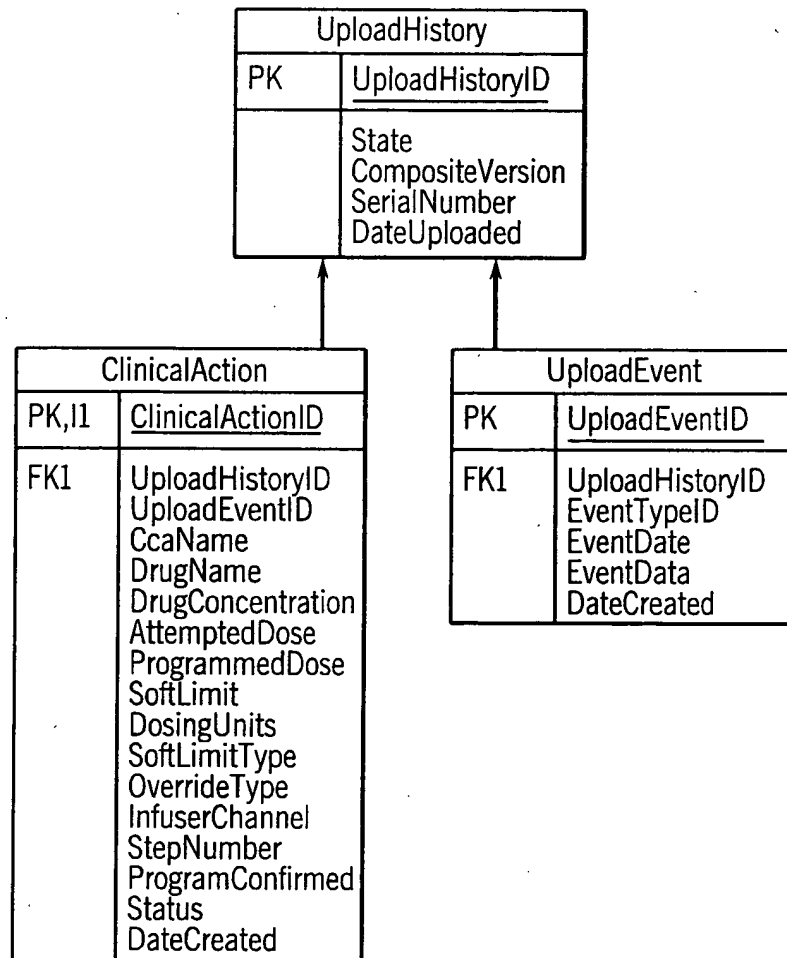


FIG. 26